

Cornell Chronicle

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The new tennis bubble rises like a giant caterpillar on Kite Hill beyond Upper Alumni Field.

Cascadilla Hall Renovation Given Approval

Will Increase Capacity from 144 to About 390

A major renovation program, expected to cost \$7.2 million, to the university's first student residence, Cascadilla Hall, was approved by trustees in January.

Meeting in New York City, the trustees approved a plan to replace the building's heating, plumbing and electrical systems and to redesign the interior. The addition of a fifth floor within the structure will increase the capacity from 144 to approximately 390.

The renovation project, expected to be completed in 1983, will incorporate presently unusable space in the building, which is more than the 115 years old. Complete re-furnishing of the facility is included as part of the project.

Located at Cascadilla Place and Eddy Street in what is now the off-campus Collegetown section of Ithaca, Cascadilla Hall was under construction as a "hydropathic institute" or water cure sanitarium

for city residents when Ezra Cornell founded the university in 1865. University trustees purchased the unfinished blue stone structure and completed work on the interior as housing for students and faculty.

Cornell's first president, Andrew Dickson White, and about half the faculty made their home in Cascadilla Hall when the university opened for classes in 1868. Over the years, Cascadilla Hall has served as a bachelor club for faculty men in

the late 1800s, as a student's Army Training Corps residence during World War I, an infirmary during the influenza epidemic of 1918 and as housing for Army trainees in World War II.

Except for brief periods of repairs, Cascadilla Hall has been continuously occupied by students since the university's founding, and currently is used as graduate student housing. The structure will be the second major university-owned

property in the Collegetown area to undergo renovations; Sheldon Court is now being refurbished for use as student residences and commercial space.

Costs of the renovation project will be repaid over a period of years through income generated by the Department of Residence Life. The investment per student living space is expected to be well under the cost of new construction for a similar number of spaces.

Photograph on Page 6

Campaign Finishes with \$250 Million

Creative Giving Cited as Five-Year Goal is Surpassed

Unusual and creative giving by many of the more than 52,000 individual donors to the Cornell Campaign, plus the active involvement of almost 3,600 volunteers, were key factors helping the university complete its five-year campaign with a record total of more than \$250 million — \$20 million above the goal.

Jansen Noyes Jr., chairman of the Board of Trustees, reported the campaign total to the meeting of the board in New York City Jan. 23.

"Creative giving pushed the campaign well over its goal," said Noyes, a 1939 Cornell graduate and president of the investment firm of Noyes Partners Incorporated.

"In addition to major gifts of cash and securities that amounted to more than \$56 million, more than 40 percent of gifts in excess of \$100,000 came in such less usual forms as oil and gas properties, foreign oil stocks, real estate, gold coins, cattle and unfinished wine," he said.

Among such gifts were: An \$8 million gift of oil and gas properties in Oklahoma in support of Cornell's Department of Geological Sciences;

Marketable securities in an Australian shale oil company valued at \$2.5 million, and marketable securities in a Guatemalan oil company valued at \$1.2 million;

A farm in Brewster, N.Y., valued

at \$1 million, given with the stipulation that income from its sale would go to the New York State College of Agriculture and Life Sciences at Cornell;

A collection of gold coins valued at \$1 million with proceeds from their sale going to the Department of Physical Education and Athletics;

A herd of cattle to fund a memorial scholarship program; Some 38,500 gallons of California grape pressings, which are expected to bring more than \$200,000 to the university when they mature to wine in 1983.

In addition to funds raised in the Cornell Campaign, the Cornell Uni-

versity Medical College here received more than \$50 million in a separate effort, bringing the total raised by Cornell over the last five years to more than \$300 million.

Goal Passed in October

The Cornell Campaign had surpassed its \$230 million goal in mid October. On Oct. 17, Austin H. Kiplinger, chairman of the Cornell board's development advisory committee, announced at a joint meeting of the board and the Cornell University Council the campaign total of \$231.2 million.

"The next two and one-half months were terrific," Kiplinger said. "We added another \$19 million

Continued on Page 5

Two Inserts Today

Today's issue of Chronicle has two pullout sections—one of four pages concerning the charters for the Employee Assembly and the Student Assembly, and another one containing the schedule of course listings for Summer 1981.

Plantations Offers Series of Winter Programs

From Walks to Bonsai Techniques

Non-credit courses in the culture and propagation of indoor plants, the identification of trees in winter and the techniques of bonsai as well as natural history workshops for children and free natural history walks are offered as part of the Cornell Plantations Winter 1981 Education Program.

Also planned is an introductory course in beekeeping. All Plantations courses and programs are open to the general public.

Russell Mott, former curator of the L.H. Bailey Hortorium Conservatory and author of the "Total Book of House Plants" will be the instructor for a four-session course, The Culture and Propagation of Indoor Plants. Lectures and demonstrations will cover the habitats of common and exotic flowering and foliage plants with sessions scheduled for 7 p.m. Mondays, March 9, 16 and 23 and with a guided tour

through the Hortorium Conservatory at 9:30 a.m. Saturday, March 28.

Harlan Banks, professor emeritus of botany at Cornell, will teach the use of buds, twigs, bark and branching habit as clues in the course, Trees in Winter. Students will also learn how trees grow in length and how to "read" wood. Classes are scheduled for 7 p.m. Thursdays, Feb. 19 through March 12.

William N. Valavanis, director of the International Bonsai Arboretum in Rochester, will offer bonsai courses on the introductory, intermediate and advanced level. The introductory course will meet from 7 to 10 p.m. for five Tuesdays, beginning March 31. The use of such bonsai specimens as juniper, Japanese maple and cypress will be included in the intermediate course, which meets from 7 to 10 p.m.

Wednesdays, beginning April 1. All-day advanced bonsai workshops will enable students to create their own bonsai masterpieces and are planned from 10:30 a.m. to 5 p.m. for five Wednesdays, starting April 1.

Structural adaptations for flying, swimming, running and feeding will be the focus of a four-session course for fifth and sixth grade children titled, How Animals Work, and taught by Raylene Gardner, a local environmental educator and naturalist. Parents are welcome to attend the workshops, which are part

of the Children's Natural History Program at Cornell Plantations and are scheduled from 9:30 to 11:30 a.m. Saturdays, beginning March 7.

Gardner will also be the leader for a series of free natural history walks through the quiet winter world of birds, trees and animal tracks. No registration is required for the walks, which begin at the Plantations Headquarters (the former Forest Home School) and are scheduled for 10 a.m. Saturday, Feb. 14; Thursday, Feb. 19; Saturday, Feb. 21 and Thursday, Feb. 26 as well as for 2 p.m. Sunday, Feb. 15 and Saturday, Feb. 28.

Richard Nowogrodzki, a Cornell graduate student in entomology, will be the instructor for a series of four lectures and two outdoor sessions on acquiring and managing honey bee colonies. The course, titled The Sweet Side of Honey Bees, is scheduled for 7 p.m. Thursdays, April 2 through 23 and for 2:30 p.m. Saturday, April 18 and 25.

Additional information on course fees and registration is available from Cornell Plantations, 100 Judd Falls Rd., Ithaca, N.Y. 14850 or by calling (607) 256-3020.

Comment

Cornell Chronicle welcomes letters to the editor concerning campus issues. Letters are limited to 300 words in length, should be typed, double-spaced, and should not contain attacks on individuals.

Editor:

In your Nov. 13 issue, Agriculture College economist Robert Kalter argues that we ought to have our military forces 'sufficient and ready' to intervene in the Persian Gulf to ensure American access to oil in that 'troubled area.' There is a macabre irony in your publication of this opinion on the same day that 13 young Americans died in Egypt during a training exercise for just such an intervention, Operation Bright Star.

Three points should be considered by Americans as, consistent with Prof. Kalter's assumption that we have the right to impose settlements determined by our economic needs, our government buys, renovates and fills with troops and weapons military bases in Dieso Garcia, Egypt, Somalia, Kenya and Oman.

First, our activities will only bring more suffering to that 'troubled area' as military equipment is transferred to authoritarian governments in exchange for base rights. Somalia, in particular, will use U.S. weapons to continue the conflict in Ethiopia's Ogaden region, forestalling a resolution of the most serious refugee/hunger problem in the world today.

Second, turning over increasing amounts of our human and physical resources to base maintenance and other programs in the \$200 billion 1981 military budget rather than to

energy research and conservation-oriented construction projects will have an economic opportunity cost far outweighing the benefits of continued access to Persian Gulf oil in terms of inflation, unemployment, international competitiveness and productivity.

Finally, as we learned in Indochina, imposing our wishes on third world nations will require a protracted struggle in which thousands of lower-class young Americans, volunteering for the armed forces in lieu of employment alternatives, and hundreds of thousands of non-Americans are likely to die.

The 13 Americans of Operation Bright Star should be the last, not the first casualties of another unnecessary war.

Caleb Rossiter
Grad, Human Service Studies

Editor

I would like to express appreciation to the hundreds of persons from the Cornell community who contributed to the faculty/staff blood drive last week. This annual drive is particularly crucial because blood supplies decline in this part of New York State when the area colleges are not in session and students are away.

The generous response by Cornell faculty and staff, and some students who were on campus, was outstanding. A total of 184 units were collected. Many thanks to all those who took the time and effort to make this important contribution to the Ithaca community.

Ronald N. Loomis, Director
Unions and Activities



A wintery scene at the Cornell Plantations, where students will learn to identify trees in winter.

New Directory Lists Acid Rain Experts

A directory listing some 114 experts in the problems of acid precipitation in New York state has been published by the Center for Environmental Research here.

Experts from 32 agencies and institutions are listed with such specialties as aquatic ecosystems, terrestrial ecosystems, atmospheric processes, monitoring, public health, technological control, public policy and regulation, eco-

economic effects and community education.

The new directory, which was funded in part by the U.S. Department of the Interior's Office of Water Research and Technology, is intended to facilitate greater sharing of knowledge about acid precipitation, according to Lyle S. Raymond Jr., a water resources information specialist who headed the directory project. The listings are

expected to be of use to specialists working in the field of acid precipitation research as well as to those with responsibilities related to the problem, such as public decision makers.

Copies of the Acid Precipitation New York State Directory are available at \$1.50 each from the Center for Environmental Research, 468 Hollister Hall, Cornell University, Ithaca, N.Y. 14853.

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, 440 Day Hall. Cornell is an affirmative action employer.

Administrative/Professional
Research Support Specialist, CP3 (Div. of Nutri. Sci.)
Research Support Specialist, CP3 (Entomology)
Admissions Officer, CP3 (Ofc. of Instruction-CALS)
Executive Staff Assistant, CP2 (Inst. of Comparative & Environmental Toxicology)
Managing Editor (Hotel Administration)

Clerical
Administrative Aide, GR21 (University Counsel)
Administrative Aide, GR21 (University Counsel)
Secretary, GR20 (Arch., Art & Planning Prog. in Urban & Regional Studies)
Secretary, GR18 (Agronomy)
Secretary, GR18 (Residence Life)

Accounts Assistant, GR17 (Geological Sciences)
Office Assistant, GR17 (Statler Inn)
Receptionist/Cashier, GR17 (Lab of Ornithology)
Secretary, GR16 (English)
AccountS Assistant, GR19 (Office of the Bursar)

Service and Maintenance
Cook, GR22 (Dining Services)
Food Service Worker, GR17 (Dining Services)
Custodian, GR16 (Varied)
Cashier, GR15 (Varied)
Sales Assistant, GR15 (Campus Store)
Journeyman Control Man, Union (Maintenance & Service Operations)
Delivery Driver, GR18 (Univ. Libraries, Adm. Operations)
Duplicating Machine Operator, GR17 (Graphic Arts Services)
Custodian, GR16 (Statler Inn)
Women's Locker Room Attendant, GR16 (Physical Ed. & Athletics/Helen Newman)

Technical
Technician, GR20 (Nutritional Sciences)

Field Assistant, GR18 (Entomology)
Technician, GR18 (Seed & Veg. Sci., Geneva)

Part-time
Executive Staff Assistant, CP2 (Off. Equal Opportunity)
Staff Writer, CP2 (Media Services)
Illustrator, GR20 (Agricultural Engineering)
Bus Driver, GR20 (Bus Service)

Temporary
Office Assistant (Student Services, Placement Office)
Office Secretary (Arts and Sciences Admissions)

Academic
Assoc. Dir. (Ecosystems Research Center & Asst. Prof., Section of Ecology & Systematics, Div. of Bio. Sci.)
Asst. Prof. of Classics (Classics Dept.)
Asst. Prof. Planetary Sciences (Astronomy)
Asst. Prof. Theoretical Astrophysics (Astronomy)
Asst. Prof. of Archaeology (Intercollege Program in Archaeology)

Cornell Chronicle

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Charters for New Assemblies Approved

New Governance System Effective June 1

Charters establishing a new system of campus governance to replace the present Campus Council, effective June 1, were approved by trustees in January.

Elections for the Student and Employee Assemblies will take place in mid-March. A faculty constituent assembly, in the form of the Faculty Council of Representatives, already exists with its own election procedures and schedules.

The University Assembly will have 21 voting members representing faculty, students, employees and three non-voting members—the vice president for campus affairs, a member of the central administration appointed by the president and the chairperson of the Committee on Minority and Third World Community Affairs. Faculty, student and employee representatives

will be chosen from the separate constituent assemblies.

The University Assembly will closely supervise and coordinate the work of standing committees on general non-academic community affairs and have legislative authority over policies which guide the activities of the Departments of Transportation, Religious Affairs, Health Services and the Campus Store.

The University Assembly will recommend changes in the judicial system and the campus code of conduct when necessary, participate in the selection of slates of nominees and concur in the president's nominations for University Ombudsman, Judicial Administrator and the Judicial Advisor.

The Student Assembly will be composed of 23 students, and will

have legislative authority over the policies of the Departments of Dining, Residence Life, University Unions and Activities and the Office of the Dean of Students. It also will review the budgets of those departments.

The Employee Assembly will be composed of 13 members representing the exempt and non-exempt (non-faculty) employees of the university. Three non-voting members will be the two Employee Trustees and one representative from University Personnel Services appointed by the president to serve as a resource person.

The Employee Assembly will explore opportunities to enhance the role, function and contribution of employees to the well-being of the university, and also examine other university policies which affect em-

ployees such as dining, health, transportation services, educational and/or training opportunities, recreation and communications among employees. The Employee Assembly also will provide advice and make recommendations on present and proposed personnel policies.

Both the employee and student assembly charters specifically provide for the allocation of seats to groups which they determine to be underrepresented, such as minorities and international students.

The charter which established the Campus Council and which was approved by the Board of Trustees on March 19, 1977, included a provision for a full review and evaluation of the council and its committees to be held during its third year. The review was conducted in 1979 by a committee composed of 15 mem-

bers of the Cornell community. A final report from the committee was sent to President Frank Rhodes in April 1980.

The report recommended a referendum be held in order that members of the Cornell community could choose what form of campus governance they wanted. The referendum was held in the fall of 1980 and the community voted in favor of establishing the University Assembly with associated student and employee assemblies.

Student and Employee Charter Drafting Committees were then established by President Rhodes and their recommendations were received by the president in December.

Rhodes' Letter Speaks to Charter Issues

Following is an open letter to the Cornell community from President Frank Rhodes concerning the Student Assembly and Employee Assembly Charters and his reasoning on changes from the documents prepared by the drafting committees.

In a referendum last fall, the Cornell community voted in favor of replacing the present form of campus governance, the Campus Council, with a University Assembly and associated student and employee assemblies. I accepted these recommendations. Because I believe that each new body should have the freedom and responsibility to establish its own identity and procedures, I formed two committees to draft charters for the employee and for the student assemblies.

In the charge to these committees, I asked that they confer with members of several groups concerned with governance. I also asked that they hold open meetings to present drafts of the charter to ensure adequate opportunity for criticism and reflection by members of the University community. Because of time constraints, I asked that each committee accomplish all of this in approximately one month's time, by December 8, 1980. Each committee did a remarkable job of meeting all of these requirements. Recommendations for a charter were presented to me by the two committees by December 8, 1980, with some modifications to these recommendations being made in the weeks following submissions. I have met with representatives of the two committees to discuss their recommendations and have made suggestions in certain areas. As a result of

these discussions some additional modifications have been made.

The two charters are well written and I have accepted virtually all of the recommendations. I have made a few changes in the Student Assembly Charter which I will describe. These few changes should not detract from the fact that the recommendations have been accepted almost in their entirety. I want to express my appreciation to each of the committee members, and to the others who participated so actively, for their hard work, their effectiveness and their timeliness.

Last fall, I indicated that elections would be held in February with elected candidates serving during the period March 1, 1981 to June 1, 1981 to draft by-laws and procedures necessary to the proper functioning of the respective assemblies. The new governance system would officially begin on June 1, 1981. It will be necessary to delay the elections until sometime in March for a variety of reasons. This should provide sufficient time for nominations and campaigning before the elections and still allow time for elected candidates to work on by-laws and procedures.

The changes I have made in the recommendations for the Student Assembly charter are:

1. Article I, Section 5. The word "general" is added to student concern so that information can be obtained about matters of "general student concern". This is to keep the focus on broad issues and not have the Student Assembly involved in specific issues dealing with an individual student.
2. Article I, Section 17. This section is

added. It states that the powers of the Student Assembly shall be exercised within the procedures of 1.3.1 of the University Assembly Charter. In the charge to the committee, it was stated that the "legislative actions of the Student Assembly should be reported to the President in the same manner as outlined in section 1.3.1 of the Charter for the proposed University Assembly." It also stated that "the Charter of the Student Assembly shall be consistent with the Charter of the University Assembly." The added section explicitly maintains this requirement.

3. Article II, Section 3. "Membership" is added to the amendments to the Charter which need approval of the President, the others being "legislative authority" and "amendment procedure." This addition would maintain consistency with the University Assembly Charter and also provide an additional review of any proposed change.

4. Article III, Section 1. A definition of student has been added to clarify those who can vote for and be elected to the Student Assembly.

Revisions in the Charter permit efforts to assure representation of underrepresented groups within the confines of the law. Since the two drafting committees determined that minorities were underrepresented, and the student assembly charter drafting committee also felt that international students were underrepresented, two seats for minorities in each of the assemblies and one seat for an international student in the student assembly will be allocated in the coming

election. Subsequent allocation of these seats will be subject to determination of the assembly based upon representational patterns and needs.

5. Article VIII, Student Grievance Committee. Concurrence (rather than approval) of the Student Assembly would be needed in the selection of the Student Ombudsman. Concurrence is the proper term.

The second half of sentence two is deleted. It stated "...and serve as a hearing board to hear certain unresolved grievances and make recommendations thereon." I believe the intent of this recommendation is already covered in the description of the duties of the Student Ombudsman.

6. Comments - Article I, Section 7. The phrase "ultimate responsibility" in the last sentence was changed to "ultimate authority". Having the responsibility to implement does not indicate that the President has any choice but to implement. Having "ultimate authority" indicates that the President has a choice. This is consistent with Section 1.3.1 of the University Assembly Charter and with Section 17 which was added to Article I of the Student Assembly Charter.

With these changes I recommended the proposed charters for the University, Student and Employee Assemblies to the Board of Trustees at the January meeting for their approval. They they gave.

I anticipate we shall have a new form of governance for the next academic year. I hope all members of the community will support it and participate in it. Only by doing so can it be useful and effective.

Frank H. T. Rhodes

\$3 Million Pew Gift to Aid Computing

A \$3 million grant from the J.N. Pew Jr. Charitable Trust to the university will be used for construction of a new university computer center and for development of the College of Engineering's instructional facility on computer-aided design.

When Cornell trustees announced on Jan. 23 the completion of the Cornell Campaign that raised more than \$250 million, they cited the \$3 million grant among the gifts the university received in December that took the campaign beyond its \$230 million goal.

Terms of the grant call for \$2 million to go toward the new com-

puter center and \$1 million for the computer-aided design instructional facility.

The computer center will eliminate the space shortage that has caused facilities of the Office of Computer Services to be scattered throughout the campus. The facility is now in the planning stages with the exact location and specific timetable for construction yet to be developed.

The computer-aided design instructional facility will make technical instruction in computer graphics available to all undergraduate and graduate students in the College of Engineering. The

Pew grant will be used for equipment purchases and software development at the \$2.2 million facility.

Kenneth King, Cornell vice provost for computing services, said: "Computing has become as important to a major university as its library. The new central facility will enable us to consolidate our services and make them more accessible to the university community."

The center will house the "next generation" of computers at Cornell, according to King. The centralization of computing services is expected to help Cornell's adminis-

trative staff in its interaction and consultation on various projects.

"Over the next decade, computing will become more and more important to Cornell," King said. "It is already a vital research tool, the importance of which will only increase in the years ahead."

"But computer literacy is also important for all Cornell undergraduates, not only for their careers, but because the computer is increasingly becoming a necessary tool for the development of knowledge."

"This grant from the J.N. Pew Jr. Charitable Trust will be of fantastic help to us as we establish the

computer-aided design facility," said Thomas E. Everhart, dean of the College of Engineering.

"The facility is going to be extremely important for engineering education at Cornell," he said. "The progressive industries are already using computer-aided design. Many more industries will follow as they meet the relentless pressure for productivity. We want our students to have the opportunity to gain as much experience as possible in what is already becoming a standard design tool for engineers."

Women, Minorities' Status Report Issued

Report Covers Students, Faculty, Staff

The second annual report titled "Status of Women and Minorities at Cornell University" was presented by Provost W. Keith Kennedy to the Board of Trustees at its meeting in New York City today Jan. 24.

The 19-page report updates information provided last year, plus an additional section on the turnover of faculty from 1972 to fall 1980.

The status of women and minorities at Cornell is described in Kennedy's report in three categories: students, faculty and support staff.

Among the data provided are the percentage of females in Cornell's seven undergraduate schools and colleges, statistics on minority applicants and admissions and the percentage of minorities in the undergraduate units and graduate programs.

Following is the text of the report, minus the supporting tables. Copies of the full report, including tables, are available at the reference desks of Olin and Mann Libraries.

This is the second annual report under the title, "Status of Women and Minorities at Cornell University." It follows the format of the report submitted to the Trustees in January 1980 with updated tables and a section on turnover of faculty from 1972 to fall 1980. As in 1980, the data are presented without a statistical analysis of affirmative action progress in relation to availability of women and minority students or scholars.

During the past year 14 women and minorities (3) have been brought to the campus for a semester or an academic year under the program implemented in late 1979. In addition, six women and minorities (2) have been granted tenure appointments by adding University funds to upgrade an available assistant professorship.

Later in 1980 the Trustees received a report from the President that he had established a position entitled Associate Provost for Affirmative Action and Equal Opportunity. The position has been advertised, applications are being received, and it is anticipated that the position will be filled by no later than the beginning of the 1981-82 academic year.

The status of women and minorities at Cornell is summarized under three headings: students, faculty, and support staff.

STUDENTS

Women

In 1980 women comprised 43 percent of all the undergraduates at Cornell — a one percent increase over 1978 and 1979. The Colleges of Agriculture and Life Sciences and Engineering, and the Schools of Hotel Administration and Industrial and Labor Relations had increases of one to four percent in female undergraduates over the 1979 levels.

The College of Architecture, Art and Planning remained at 42 percent female undergraduates, Arts and Sciences remained at 45 percent and Human Ecology had a decline in the percentage of female undergraduates.

The College of Human Ecology has been trying to increase the number of men. Progress has been slow, but it has had modest success, just as Engineering has had modest

success in increasing the number of women. For the second year the freshman class of the College of Agriculture and Life Sciences included more women than men.

The percentage and number of female students in all three of the professional schools and in the Graduate School were higher in 1980 than in 1979. The change during the decade of the seventies in the percentage of women in the College of Veterinary Medicine has been dramatic, with the number of women exceeding the number of men in the 1979 and 1980 entering classes. The 1980 entering class of 80 in Veterinary Medicine included 51 (63.8%) women and 29 men.

The increase in the percentage of women in the Graduate School is not as great as in the professional schools; but during the past decade there was a twofold increase in the percentage of women in the physical sciences and nearly a twofold increase in the biological sciences.

Minorities

Significant progress in increasing the percentage and number of minority undergraduate students occurred in 1980 except for American Indians. Recruitment efforts over the past four years have increased the number of undergraduate applicants by 77 percent, with more than a doubling in the number of applications from Blacks and a thirteenfold increase in the number from non-Puerto Rican Hispanics.

The number of minority applications which have been approved for admission has increased by 54 percent over the four-year period and the number of entering minority students has increased 33 percent over the three-year average for 1977-79. The progress in 1980 over 1979 is due to the increase in number of applications and in yield of students approved for admission.

Minority students and the COSEP staff contributed to the higher number of applications and yield by approved applicants through an aggressive recruitment program and by contacting the minority students who were approved for admission.

The numbers and percentages of minority students in the three professional schools increased in the fall of 1980 over the numbers and percentages in the fall of 1979. In the past few years minorities have shown an interest in veterinary medicine and the College is making a special effort to reach minority students.

The percentage of minority students enrolled in the Graduate School has remained near the 5-6 percent level during the past seven years, with a decline from 6.0 percent in 1979 to 5.4 percent in 1980. The largest decline in minority graduate students was in the humanities with 16 entering minority graduate students in 1979 and only three in 1980. All of the minority groups (except Asian Americans) are substantially under-represented in the Graduate School by comparison with their proportion in total population in the United States.

The lack of progress at Cornell in increasing the enrollment of minority graduate students (other than Asian Americans) also is occurring at other universities throughout the United States. Minority students are

entering the job market or continuing their education in professional fields — Business Administration, Law or Medicine.

FACULTY

Women

The number of women faculty increased from 148 reported for January 1980 to 158 for December 1980, for a total increase of 49 women over the past seven years. The largest increase in women faculty is at the assistant professor level but slight progress is occurring at the full professor level.

Based upon a survey made by Harvard University, the College of Arts and Sciences at Cornell has a higher percentage of women faculty than similar colleges at Harvard, Michigan, Yale, Princeton, Stanford and MIT (all units). Cornell lags behind a number of public universities and private colleges in the percentage of women faculty.

The percentage of female assistant professors receiving promotion to tenure slightly exceeds the percentage of male assistant professors receiving tenure in Arts and Sciences, but the reverse is true in Human Ecology.

In the other colleges the number of women considered for promotion is so few that reliable comparisons of promotion success of women and men is not possible, but of the six women considered, five were promoted. In the past very few women were appointed to the faculty at levels above that of assistant professor; two such appointments were made in fall 1980.

Representation of women among non-faculty academic personnel, especially lecturers, remains substantially greater than their representation among the faculty. Over 40 percent of the instructors, senior lecturers, lecturers and other non-faculty academic personnel are women.

Minorities

During the past year the number of minority faculty declined by four. Two new minority faculty were appointed, but six were lost through three resignations, one not receiving tenure, and two leaving at the end of their terms in temporary positions. Of the 34 minority faculty considered for tenure in the past six to eight years, 28 were promoted.

SUPPORT STAFF

Women

White women make up 60 percent of the approximately 3,500 full-time non-exempt employees.

Among exempt employees, white women occupy most of the CPO 1 and CPO 2 positions but starting at the CPO 3 level, white males hold a sharply increasing percentage of the higher-salaried positions. During the past year the number of women in exempt grades increased more than men but more men were appointed at CPO 3 and higher levels. The percentage increase of appointments in the higher grades was somewhat higher for women than men, but no woman was appointed to CPO 9.

Minorities

Minority women make up 2.9 percent and minority men 1.7 percent of the non-exempt grades.

The number of minorities in exempt positions increased by eleven during the past year — six men and five women. The percentage in-

crease in minorities was slightly greater than the percentage increase in whites. The number of minorities in each of the CP grades is relatively low but the minority men continue to have a slight edge over the minority women at grades CPO 3 and higher. Four minority men are at grade CPO 8 while no minority woman is above the CPO 7 grade. No minority is at the CPO 9 grade.

FACULTY AND STAFF TURNOVER

Professorial

Turnover of white female faculty members has been 28 percent of those appointed over the past eight years compared to 30 percent for white male faculty members. Turnover of minority faculty has been 39 percent, but higher rates are chiefly due to the use of term appointments to supplement the permanent positions in the Africana Studies and Research Center. In the professorial ranks the turnover of women is slightly less than for men.

Other Staff

In July 1980 the Department of Personnel Services expanded the scope of its exit interviews and in future years the data should be more comprehensive than those for turnover of employees from December 1979 to December 1980. In comparing turnover rates for women versus men and minorities versus non-minorities, it is important to recognize that:

1. There are so few minorities in most occupational groups that percentages are unreliable indicators of the turnover process; a shift of one individual will cause a large fluctuation in the observed rate. The same problem exists for white females in the skilled crafts and to a lesser degree in executive, administrative and managerial positions.

2. In the professional, non-academic group, women and minorities tend to be concentrated in particular positions (e.g., executive staff assistants, student program specialists), whereas white males are dispersed across all positions in the category. Turnover should be compared within a narrower range of positions but the numbers are too small to be reliable.

3. Reasons for turnover may be different for women and minorities than for white males due to employment while spouse is completing a degree, different job pressures and other factors which may be identified with more comprehensive exit interviews.

The Office of Equal Opportunity currently is preparing quarterly reports showing terminations and other personnel actions by job group, by race and by sex. These data should present better future reports on employee turnover at Cornell.

CONCLUSIONS

The number of women in the undergraduate, advanced professional and graduate programs has continued to increase with three of the academic units having approximately equal numbers of women and men — Agriculture and Life Sciences, Arts and Sciences and Veterinary Medicine.

Women comprise 84 percent of the undergraduate enrollment in Human Ecology and only 17 percent in Engineering. Continued effort is required to increase the enrollment

of women in other academic units, especially the Graduate School, Business and Public Administration and Law.

The number of applications and the number of entering minority undergraduates increased significantly in 1980 over the numbers in previous years. Unfortunately, similar increases did not occur at the advanced professional and graduate levels. The decline of minorities in the Graduate Schools of American universities provides little comfort for the drop in minority graduate enrollment at Cornell.

For the first time the percentage of women faculty exceeded the ten percent level. The overall increase for 1980 was six women faculty, including two at the full professor level. The number of minority faculty declined from 81 in 1979 to 77 in 1980. Asian Americans continue to constitute more than one-half of the minority faculty.

The opportunity for a gradual increase in the percentage of women during the 1980s is encouraging but the outlook for increasing the minority faculty, especially Blacks, Hispanics and American Indians, is very depressing due to the decrease in minority graduate students throughout the United States.

The numbers of both men and women in the more senior exempt positions increased during 1980 with a somewhat higher rate of increase for women. All CPO 9 positions, however, continued to be filled by men. The percentage of minorities in exempt positions showed a slight gain during 1980.

The turnover rates for women and men employees appeared to be about the same with a slightly higher retention rate for female faculty compared with male faculty. Data on turnover among non-faculty employees are available for 1979 only and hence, not as reliable as desired.

It appears that the attrition of minorities is greater than for non-minorities but comparisons must include a longer time period before conclusions are possible.

During 1980 Deans, departments chairpersons, and other unit heads were reminded at frequent intervals of the University's commitment to affirmative action, the need for periodic counselling of employees and the importance of effective interpersonal relations.

The President issued statements condemning sexual and other forms of harassment and requested the assistance of the Associate Ombudsman in helping Deans and other administrative officers to improve the quality of the campus environment for women and minorities.

The Office of Equal Opportunity, the Senior Vice President and the Provost were successful in improving the search procedures for faculty and support staff and in encouraging internal promotions of women and minorities. The appointment of the Associate Provost should further strengthen the Equal Opportunity and Affirmative Action Program at Cornell.

W. K. Kennedy

Regional Offices Credited in Campaign

Help Reach Out to Alumni Across Country

Continued from Page 1

to the campaign, including \$6.7 million in December alone."

Among the gifts received in December was a \$3 million grant from the J.N. Pew Charitable Trust toward a new computer center for the university and a computer graphics program in the College of Engineering.

Kiplinger, a 1939 Cornell graduate and editor-in-chief of Kiplinger Washington Letters and Changing Times magazine, also noted that in 1980 the Cornell Fund, the university's alumni annual giving program, was more than 1,000 donors and \$800,000 ahead of 1979.

"The overwhelming response to the campaign is further evidence of the strength of one of the world's great universities," Kiplinger said. "We are well poised to meet the challenges and opportunities of the years ahead."

Cornell President Frank Rhodes

called the successful completion of the campaign "a magnificent achievement, especially during a period of such economic instability. Generations of future Cornellians will benefit from the devotion that this remarkable accomplishment represents."

Noyes praised the "key role" played in the campaign by Rhodes. "His ability to project the stature of the university as well as his direct personal involvement were vital to the success of the campaign."

Regional Offices Credited

Noyes said "The ability to take the campaign directly to Cornellians everywhere through our Regional Offices was a real strength. We went where our market was, rather than trying to manage the campaign completely from Ithaca or New York City."

Offices in New York City, Philadelphia, Boston, Cleveland, Houston, Pasadena, Calif., Coral

Springs, Fla. and Ithaca coordinate the university's public affairs activities in areas of the country having large concentrations of Cornell alumni and provided staff support to the campaign's volunteer structure. An international operation, based in Ithaca, began last year.

Funds raised during the campaign have been used in such areas as animal research, freshman writing and foreign exchange programs, campus beautification, the purchase of rare books and construction.

Among the building projects are biological sciences buildings, a building for submicron research, renovation of several buildings in the College of Arts and Sciences, enlargement of Gannett Health Center and an addition to Uris Library.

When the \$230 million goal was set, the general areas designated for support were new programs and staffing to enhance the quality of a Cornell education, physical im-

provement to the campus and facilities, current operations, endowment both in building maintenance and for the establishment of professorships and scholarships.

Five Committees Active

Activity of the campaign was carried on by five committees, all of which reached or surpassed their goals.

The Major Gifts Committee, chaired by Robert W. Purcell, raised \$95 million; its goal was \$90 million. Purcell is a 1932 Cornell graduate and retired business consultant for Rockefeller Family and Associates.

The National Area Campaign Committee raised \$70.1 million; its goal was \$45 million. Under the direction of Robert Cowie, the committee worked in 62 major metropolitan areas with chairmen and committee members calling on alumni for their support. Cowie is a 1956 Cornell graduate and vice pres-

ident for public affairs of Dana Corp., a Pennsylvania engineering firm.

The Corporate Gifts Committee raised \$26 million; its goal was \$25 million. Twenty-two of the nation's major business leaders served on the committee co-chaired by Robert Hatfield and Robert G. Engel. Hatfield is a member of the Class of 1937 at Cornell and retired chief executive officer of Continental Group. Engel, a 1953 Cornell graduate, is executive vice president and treasurer of Morgan Guaranty Trust Co.

Foundations contributed \$40 million, the goal in that area.

Gifts to the Cornell Fund were \$31.8 million; its goal was \$30 million.

(Since some gifts from individuals have been simultaneously credited to the Cornell Fund and other programs, the sum for the program areas exceeds the campaign total.)

Where Money Came From, Where It's Going

(The following data and commentary on the Cornell Campaign has been prepared by the Office of Development.)

Cornell has just announced the successful completion of its \$230 million campaign showing a final total of \$250,000,632.89—\$20 million over the goal. This tremendous outpouring of support from Cornell alumni, friends, corporations and foundations gives the university added strength and helps assure its long-term financial stability. With soaring energy costs, with inflation affecting all aspects of the university operation, with the expanding knowledge explosion and with ever-increasing specialization, the \$250 million does not mean that Cornell's total needs have been met. Rather, because of the success, we now have a stable financial platform from which to raise even greater funds to meet the ever-pressing needs of today and what we know will be expanding needs in the future.

It is important that people understand the sources from which the campaign funds were received and the uses for which these campaign dollars are going.

Breakdown of Gifts by Source:

Campaign to Date: 7/1/75-12/31/80

	\$ Commitment	\$ Receipts	Pledges \$ Outstanding
Alumni	88,619,128	62,194,614	26,424,513
Non-Alumni	22,423,832	18,893,798	3,530,033
Companies	25,920,895	20,493,680	5,427,215
Foundations	38,562,381	27,953,752	10,608,629
Bequests	74,474,394	31,676,547	42,797,846
Total	\$250,000,632	\$161,212,383	\$88,788,239

In looking at the sources of support, it should be noted that one third of the campaign funds, \$88 million, is in the form of pledges, of which \$42 million are bequests and other deferred gift arrangements. It should also be noted that bequests are counted in the campaign at their present value. The actual money received by the university at the time these bequests mature may be substantially above the

\$42 million. The balance of campaign pledges, or \$46 million, will be received by the university over the next three to five years.

Purposes for which the funds have been given:

1) \$95.7 million of the \$250 million has been designated for endowment purposes. Such monies are critical to the long-term financial stability of the university. Cornell can use only the income from these endowments in support of current operations.

Included in this endowment total are endowed professorships in which there has been at least one endowed professorship in every endowed college at the university and the first fully-endowed professorship for the New York State College of Agriculture and Life Sciences. The University Librarian's position has also been permanently funded. Programs to reinforce Cornell's ability to retain young faculty have also gained endowment support, such as the \$1.25 million grant for junior faculty in the humanities. Student financial aid opportunities have also been strengthened by new endowments, including the Lester B. Knight Jr. Scholarships for students pursuing an M.B.A. and a Master of Engineering degree or the Starr Memorial Endowment Fund for undergraduate and graduate students majoring in fields of study under the auspices of the China-Japan Program.

2) \$36.1 million has been raised for construction and renovation for noteworthy improvements to the campus.

Biological Sciences Buildings	(\$15 million)
Geological Sciences Building	(6 million)
Uris Library Addition	(3 million)
Rockefeller-Goldwin Smith Renovation	(2.5 million)
Submicron Facility	(1.7 million)
Franklin Hall Renovation	(1.25 million)
Computer Graphics Facility	(1.57 million)
Performing Arts Center	(1.25 million)
Gannett Health Center	(1 million)

3) \$52 million of the campaign total was for unrestricted

support of the operating budget and has been used by the university to meet on-going operating expenses during the period of the campaign.

4) Approximately \$5 million of gifts received were gifts-in-kind, such as art works, books, equipment and other items which enhance Cornell's educational or recreational activities.

5) The balance of gifts and commitments are designated for particular needs throughout the entire university, needs which include equipment, specific program support and such things as visiting lectures and concerts which strengthen the total educational program.

Campaign dollars help Cornell retain high-quality academic instruction and resources which, in turn, enable the university to compete for the finest faculty, students and staff. Campaign gifts have permitted Cornell to remain a stable employer at a time when many educational institutions are drastically cutting programs or even closing their doors. Private support has been vital in returning Cornell to a balanced budget.

The support given to the university through the Cornell Campaign by alumni, friends, corporations and foundations in cash receipts has increased by 76 percent over the last five years—from \$26.2 million in 1975-76 to \$46.2 million in 1979-80. (The campaign included both cash receipts and pledges). This support has enabled Cornell to expand and renovate facilities, to update and improve on its instructional and research programs, to provide for long-term financial stability, and to bring the operating budget into balance. This increased level of support will have to grow to even greater heights as Cornell continues to work to stay at the forefront of educational advancement. The needs of today are still present. These coupled with the needs of tomorrow will challenge the university and its loyal supporters and result in even greater support and greater educational achievements.

Odd cents removed in first table above

Arts College's General Education Catalog Lists Others' Courses

Faculty in all schools and colleges on campus are invited to submit outlines of courses they think appropriate for inclusion in the Arts College's booklet "Courses in General Education."

Deadline for inclusion in the fall 1981 edition, which will be published in time for pre-registration this spring, is Friday, Feb. 13.

Submissions should be made to David Mermin, professor of physics, 510 Clark Hall. Mermin is chairman of the Arts College's General Education Committee which will

review the course description to decide if it meets the criteria for the booklet.

The descriptions should be typed double-spaced on one sheet of paper.

Mermin said, "These courses should be designed primarily for non-specialists. They can be deeper and more challenging than conventional introductory courses which must attempt to present the elements of an entire subject. The new courses should be as much concerned with the general ability to write and think as they are with

substantive content. Courses sponsored by the board should not be 'elementary' or 'diluted' presentations of a particular field but, by being freed from the constraints of preparing students for more specialized offerings, could be deeper

or more focused than the usual 101 course."

Additional material, Mermin said, such as course outlines or reading lists would help in deciding the appropriateness of proposals. Bear in mind the distinction be-

tween courses for non-specialists and advanced courses. Examples of both kinds are in the Fall 1980 and Spring 1981 booklets available through office of the dean of the Arts College.

The Spring 1981 booklet contains a non-Arts College course for the first time. The course "Mechanical and Aerospace Engineering 302, Technology, Society and the Human Condition," is described on page 15 of the booklet. It is being taught by Bart Conta, professor of engineering, see Chronicle, Dec. 4.

Central Avenue Periodically Closed

Through traffic on Central Avenue will be interrupted periodically starting next week, during relocation of utility lines under the road near Uris Library. The work is in

preparation for a major addition to the library, to be started next April. At that time through traffic will be stopped permanently.

Ombudsman Report: Activity Is Consistent

After a Decade, Caseload Stays Nearly the Same

The annual report of the Office of the Ombudsman for 1979-80 provides a detailed look at its unobtrusive but widespread and consistent activity during the past decade.

Copies of the 22-page report, published over the holidays, are available in the Office of the Ombudsman in 201 Barnes Hall and at the Reference Desk in Olin Library.

Citing the hallmarks of the office as confidentiality, independence and impartiality, Ombudsman Herbert L. Everett points out that there has been a surprising consistency in the number of cases of all types the office has handled annually since its first full year of operation in 1970-71. A breakdown of these appear on pages four and five of the booklet.

"Clearly there is no trend with respect to the Ombudsman's case load," he states. "If we average the 10 years of full operation from 1970-71 to 1979-80, the mean number

is 461 which approaches identity with 462, the most recent figures."

He points out: "In order to have a handle on the scope of actions in the office, four basic response categories have been defined: cases, inquiries, referrals and consultations. Our use of definitions is flexible but in usual circumstances, cases are complaints for which a staff member had to make some contact outside the office. A referral, as indicated by the name, is to direct a client to a source of help or information, while inquiries are simply requests for rather specific information. Finally, consultations are those broad discussions, frequently related to university policy in which we serve as initiators or as invited participants."

"Perhaps," Everett states, "there is a positive trend in the fourth category, consultations. If so, the increased use of the Ombudsman's staff reflects the

unique individual strengths found in the two associate ombudsmen. In 1979-80 there were 67 (up 10 from the 10-year mean) such consultations ranging from the contributions of Joycelyn Hart to the President's evaluation of human relations on campus to Ronald Bricker's commitment to the Title IX review of the women's sports program."

He says the stability and efficiency of the office is attributable to the support staff which also includes Danilee Poppensiek, who has been the ombudsman's administrative aide since the office's inception 11 years ago.

Everett reports that the proportions of each client group visiting the ombudsman's office is similar from year to year and "reflects rather closely the distribution of all individuals in the campus community."

A pie chart on page 6 breaks these down as 36 percent undergraduate

students, 15 percent graduate students, 23 percent non-academic employees, eight percent academic employees, six percent student affiliated and 12 percent other groups, anonymous, etc.

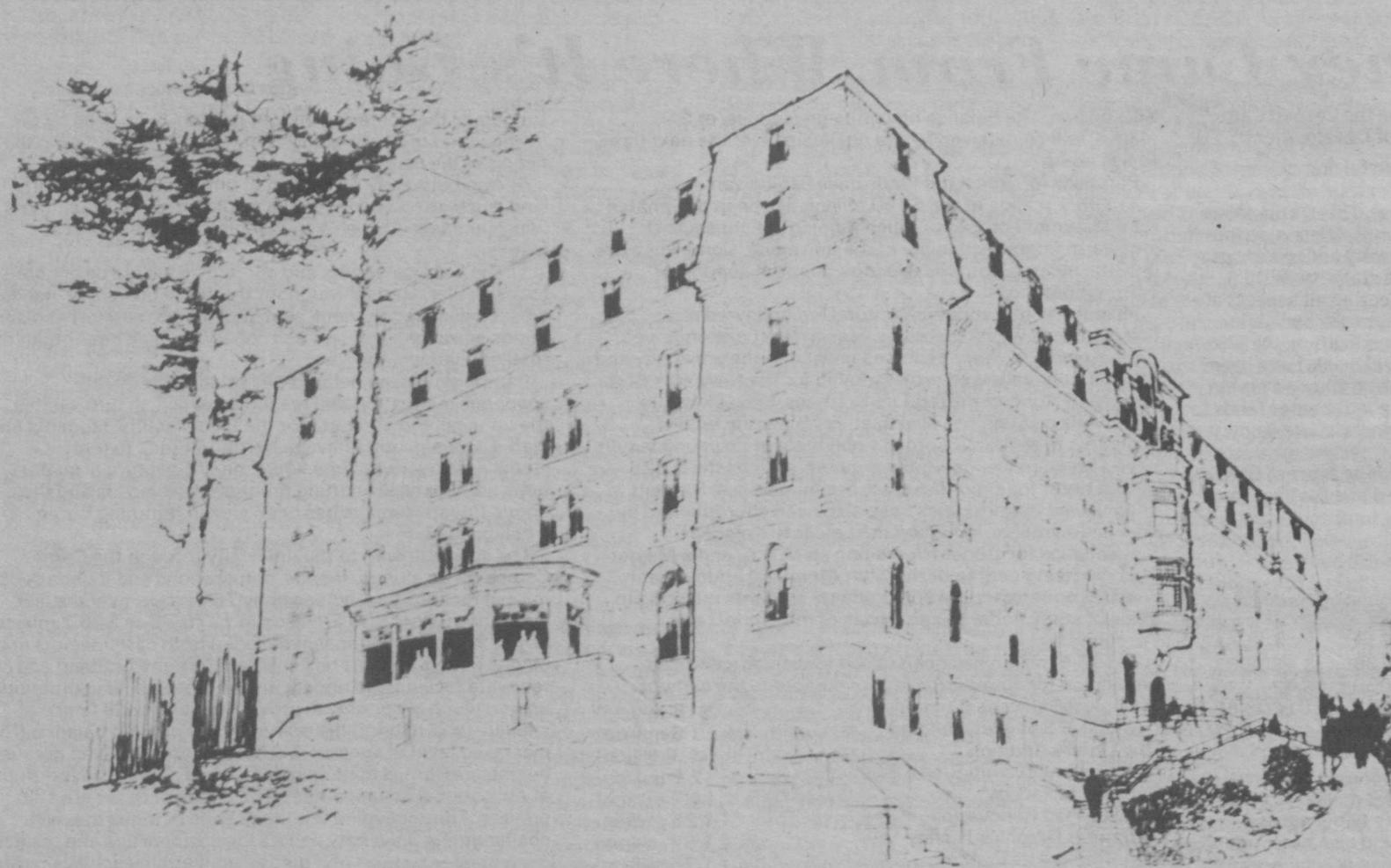
On page 16, Everett cites some of the more substantive issues handled in 1979-80: "Specific problems considered in the past year include operation of the Cornell Children's Tuition Scholarship (CTS) program and its relationship to overall policies in the Office of Admissions; the use of letters of recommendation by ad hoc committees in the tenure review procedures; and the handling of sexual harassment in the university community.

"More general problems have been a part of several complaints brought to the office. Two such concerns are seen in (1) the expressed need for effective supervisors in directing and evaluating both exempt and non-exempt em-

ployees and (2) in the availability of student employment outside the College Work Study (CWS) program. Special training opportunities for continuing supervisors and required training programs for new supervisors should reduce that area of complaint in the future. As for student employment, a greater effort in the Office of Scholarships and Financial Aid may well be needed."

Everett is in the middle of his two-year term in the half-time post. He is a professor of plant breeding and has been a member of the Cornell faculty since 1952.

Everett quotes former Ombudsman Eugene C. Erickson: "It is not so much the professional skills one brings to the office which are important as it is the awareness of the complexity of this institution and the ways in which the myriad of human interactions can get screwed up that is important."



The home to students, half the faculty and Cornell's first president when the University opened for classes in 1868, Cascadilla Hall will undergo extensive renovations beginning this year to add a fifth floor and increase the capacity to some 390 students. (See story, page 1.)

Cornell, City Join in Study of Collegetown

The report on the first phase of a jointly sponsored Cornell University-City of Ithaca study of potential development in Collegetown is expected to be made by American City Corp. in early March.

The firm, of Columbia, Md., has been hired by the university and city, who are sharing the cost, to look at development possibilities in the area bounded generally by Cascadilla gorge on the north, Eddy Street on the west, Catherine Street on the south and Linden Avenue on the east.

The study will consider the area

as a possible site for the university's proposed performing arts center or for alternate development if another site is chosen for the center, according to William D. Jones, assistant treasurer who is the university's project chief for Collegetown, and Mick Bottge, for the city Planning Department.

The study also will include analysis of the site in terms of traffic access and circulation, parking, site capability (size and configuration), funding sources and impact on future development in the Collegetown area.

The city and university have

agreed to share the \$30,000 cost of the first phase of the study, which should be completed in April, and at that time to make a decision whether to go ahead with the second phase, at a cost of another \$30,000, which would be completed in June.

Part of phase one, which is expected to be completed in February, will consider the feasibility of a Collegetown site for performing arts. The remainder of the first phase will consider broader development objectives for the area, market studies and likely alternatives and developers for the area.

If it is decided to go ahead with

the second phase, this will set forth specific types and amounts of uses that could be accommodated in a total development program for the area. A site plan will include specific plans by the city, the university and other potential developers. It also will include design and developer selection criteria and construction management and marketing requirements.

American City Corp. is familiar with Ithaca, having done the studies that led to the development of the Ithaca Center project, which is now in construction downtown.

Prof, TA Both Win Fulbrights

A faculty member and a former teaching assistant are both recent recipients of Fulbright grants.

Sidney Saltzman, professor and chairman of the Department of City and Regional Planning in the College of Architecture, Art and Planning, will lecture in the Soviet Union for three months this year.

Henry E. Kelley, a teaching assistant in modern languages and linguistics for more than three years, is now teaching in Yugoslavia.

Saltzman, on sabbatic leave until June, will lecture in Russia on simulation models in planning and policy analysis and on regional planning methods. He will be there from March through May.

Saltzman is scheduled to lecture at Moscow Architectural Institute, Vilnius Construction and Engineering Institute, Georgian Polytechnic Institute and Moscow Construction and Engineering Institute.

A member of the Cornell faculty since 1963, Saltzman is in his second term as department chairman. He has been assistant director in Cornell's Office of Computer Services and an assistant professor in the College of Engineering.

This is Saltzman's second Fulbright. In 1965-66 he was a Fulbright Scholar at the Technion-Israel Institute of Technology in Haifa, Israel.

Kelley, who holds master's and Ph.D. degrees from Cornell, has been teaching English as a foreign language at the University of Banja Luka in Yugoslavia since October 1980. He will continue there through June.

After his graduation from Tufts University, he became a graduate student at Cornell. While working toward his master's, which he received in 1977, and his Ph.D., which he earned last August, Kelley was a teaching assistant.

The awards are two of more than 500 Fulbright grants for university teaching and advanced research in more than 100 countries for 1980-81.

15 Years of History Goes to Archives

Images Leave Visual Services Files

To the staff of Visual Services, the more than 11,000 color slides represent 15 years of Cornell history — from trivial events to the traumatic, from celebrated people to the absolutely anonymous.

For the Department of Manuscripts and University Archives, the images being transferred there this year will be a challenge in

preservation and indexing technique.

Both departments share the goal of keeping the photographs accessible and in usable condition for researchers who will need them in the near and distant future.

There is no particular significance to the 15-year time frame, notes Visual Services Director Sol

Goldberg, other than that 1965 was when he began officially documenting Cornell and Cornellians with color slide film and 1980 was when storage space started running out in the basement office at Day Hall. In January 1981, Goldberg undertook the task of identifying as many as possible of the images recorded by his camera and by Chronicle photog-

rapher Russ Hamilton.

Figuring out when the pictures were made will be simple enough, as will identifying most of the well-known subjects (former Cornell President James Perkins, for example, or Cornell football great Ed Marinaro). Others will be in the category of "unidentified-Cornell-student-reading-under-Arts-Quad-tree."

Campus trees themselves will be of interest to those browsing through the slide collection; during the period, Cornell lost much of its famed foliage to Dutch elm disease. Aerial photographs also chronicle the changing architectural scene as old buildings made way for the new.

Many of the images will be familiar, having appeared on national magazine covers or Cornell brochures or in slide presentations. But Goldberg, who is tape recording data and comments on each slide, will have to put his powers of recollection to the test for some of the shots.

When the slides are turned over to the University Archives, the process of cataloguing will begin.

"We have a wide variety of material here, and most of it is in rather good shape," says University Archivist Gould P. Colman as he tours the Olin Library basements and explains the standard practices for organization and retrieval of everything from 1870-vintage student scrapbooks to campus water main plans to motion picture film.

"Photographs are the most difficult items for archivists to handle," according to Colman. "The

state of the art is far more art than science." The Archives already have at least 500,000 photographs on hand, including daguerreotypes, tinctypes, glass negatives and lantern slides. Materials are stored in acid-free containers and Archives space is kept at a constant temperature and humidity.

The Visual Services photographs will present special problems, the archivist predicts. "Based on simulated aging tests," he says, "we cannot expect color slides to last more than 50 years."

For the average family snapshots of a Yellowstone vacation or Cousin Minnie's wedding, 50 years might be fine, but not for archivists whose aim is long-term preservation. So a study is underway to determine the best means of preventing deterioration of the images. "In the past, solutions have emphasized either preservation or use," says Colman. "The method of preservation must meet the needs of the users. We would not be doing the University a service if we discouraged use."

The archivists plan to apply a new computer indexing scheme they developed, with support of a Whitney Foundation grant, to cope with the voluminous Willard D. Straight collection. Each of some 1,000 photographs made by the 1901 graduate of Cornell during his travels through China (1909-1912) is listed by subject, date, place and condition.

"There has been an increasing interest in photographs over the last 10 years," archivist Colman observes. "We know we have to do much better than we're doing now."



Images of Cornell Chronicle Photographer Russ Hamilton, center left, and Visual Services Director Sol Goldberg, center right, are surrounded by some of the thousands of photographs they have made over the years.

Endowment Shows Good Performance

The university's Endowment Fund had "dramatic" growth between 1970 and 1980, according to a report of A.G. Becker, a performance evaluation firm.

"After adjusting for additions and withdrawals, the Endowment Fund of Cornell University has achieved results over the last 10 years that rank it in the top 6 percent of Becker's universe of endowment funds," according to the firm's summary comments on Cornell.

Becker compared Cornell's Endowment Fund with more than 200 other endowment funds over the 10-year period.

As of June 30, 1980, the Endowment Fund stood at \$291.5 million, compared to \$194.7 million in 1970.

The main reasons for Cornell's "superior results," according to Becker, are increased investment in common stocks at a time when the stock market was right for such a move, and selection of "market sectors" and individual stock issues "that provided superior returns."

Between 1975 and 1980, Cornell's commitment of the Endowment Fund to common stocks rose from 55 percent to nearly 70 percent. "This was done in a period which favored common stocks over other conventional investments," Becker reported.

Becker's endowment fund sample

shows most endowments decreasing their common stock holdings during the same period.

"The prime determinant of performance has been the ability of the managers (of Cornell's investments) to select the favored sectors of the stock market and make significant commitments to those sectors," Becker said.

Results of the fixed income portion of the Endowment Fund have also been "very favorable," according to Becker, minus 8.8 percent, for a ranking in the 10th percentile.

Cornell's Endowment Fund has had strong results because in comparison to others it has done well in both up and down markets, Becker said.

Cornell's total Endowment Fund rate of return over the 10 years compounded at 8.7 percent, a result that outperformed 94 percent of the endowment funds in Becker's data base. Over the last six years, Cornell's Endowment Fund has compounded at 10.5 percent, outperforming 86 percent of the funds.

Cornell's stock results over the period are higher than the total Endowment Fund results. There, the compound rate of return was 10.1 percent, outperforming 95 percent of others studied. Over the last six years the compound rate of return was 12.4 percent, outperforming 91 percent.

Calendar

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

*—Admission charged.

Announcements

My Indoor Playcenter Meets every Mon., Tues. & Fri., 9:30-11:30 a.m. for children of the Cornell Community from 6 months to 4 years of age in the presence of a parent. For additional information, please call 257-0736 or 273-3662.

Monday & Tuesday

Feb. 9 & 10, 10 a.m.-3:45 p.m. Barton Hall. American Red Cross Bloodmobile sponsored by Alpha Phi Alpha Fraternity, Inc., Alpha Chapter. Advance signups on Feb. 5 & 6 at Willard Straight Hall Lobby table.

Tuesday

Feb. 10, 3:30-6 p.m. 103 Barnes Hall. "Sex Roles and the Real Me," a workshop sponsored by the Dean of Students Office and Unions and Activities. Free.

Tuesday & Wednesday

Feb. 10 & 11, 10 a.m.-2 p.m. Straight Memorial Room. "Spring '81 Activities Fair," sponsored by Living Learning Center, WSH Program Board and The Activities Center.

Feb. 11, noon Willard Straight Front Steps. Rally against U.S. support of Salvadoran junta, followed by discussions 1-3 p.m. in Straight Lofts 2-4.

Thursday

Craft Studio, North Campus Union The Craft Studio is now holding registration for courses beginning Feb. 16. Students, faculty, staff and the general public are all invited to take part in courses ranging from jewelry to woodworking to weaving; over 30 courses in all. Call 256-6220 for information or stop by the North Campus Union at Triphammer and Jessup Roads.

Cross Country Skiing A one-day course will be offered twice, Section I - Feb. 14 and Section II - Feb. 21. The class will be held on campus 10 a.m.-12:30 p.m. and then the group will meet again for an afternoon tour from 2-4:30 p.m. Register at Straight Terrace Lounge Thurs. & Fri., Feb. 5 & 6, 10-11 a.m. and 3-4 p.m. Call 256-7131 for information. \$6 for students, \$8 for non-students; individuals are responsible for acquiring their own skis. Rentals are available at local outdoor equipment shops (information available at registration). Sponsored by Experimental College, Department of Unions & Activities.

Academic Survival Workshops Study Skills Workshops begin Feb. 9. Topics include: note taking, time management, reading skills, test preparation and strategies, and research paper skills. Reading Skills Workshops begin March 3. Sign up in advance at the Learning Skills Center, 375 Olin Hall or call 256-6310.

Uris Undergraduate Library Tours Tours meet at the Uris Circulation Desk on Feb. 5, 2:30 p.m. and Feb. 6 at 10:30 a.m. Tours of Uris will include a brief tour of Olin Library as well. Handicapped students needing special tours should call 256-2339.

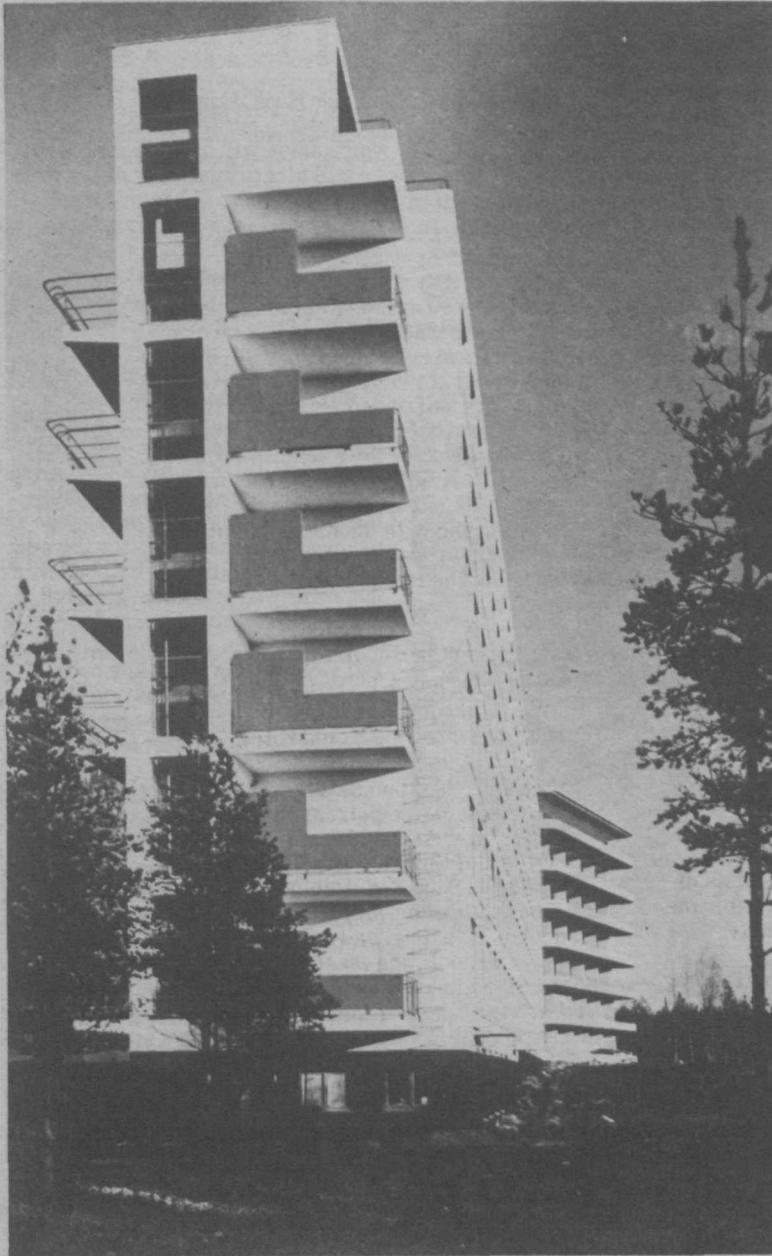
Olin Library Tours Tours are offered for new and rejoining graduate students and faculty on Feb. 5 at 10:30 a.m. and Feb. 6 at 2:30 a.m.

Olin Library Union Catalog Orientation sessions are offered to graduate students and faculty. The sessions last about an hour and will be given on Feb. 10 and 19 at 2:30 p.m. and on Feb. 10 and 18 at 7 p.m. in Olin Library, Room 214.

Colloquia

Thursday

Feb. 5, 4:30 p.m. Space Sciences 105.



"Regional Sanatorium, Paimio, 1930-33," by Finnish architect Alvar Aalto is on view at the Johnson Museum as part of an exhibition of Aalto's works. The exhibition, "Aalto: Mystery of Form," is being held in conjunction with the Department of Architecture's Preston Thomas Memorial Lecture Series. (See page 3 of Jan. 22 Chronicle for lecture details.) The series is given annually with funds provided by Mr. and Mrs. Leonard Thomas of Sennett in memory of their son, a former architecture student at Cornell.

Astronomy and Space Sciences: "Swirling Jets and Vortex Funnel in Accretion Flows," Professor Richard Lovelace, Cornell.

Dance

Every Thurs., 8-11 p.m. Anabel Taylor One World Room. Israeli Folk Dancing.

Every Sun., 7:30 p.m. Straight North Room. International Folkdancing. Intermediate and advanced dances taught 7:30-8:30 p.m. Request dancing 8:30-10:45 p.m. Free.

Every Tues., 7:30-10:30 p.m. Martha Van Rensselaer Auditorium. Couples dancing, Scottish, English and International teaching and requests. Free. Singles welcome.

Every Wed., 7:30 p.m. Straight Memorial Room. International Folkdancing. Beginners taught 7:30-8:30 p.m. Request dancing 8:30-10:45 p.m.

Friday

Feb. 6, 8:30 p.m. *Straight Memorial Room. Cornell Outing Club Square Dance. All welcome.

Exhibits

Kulit Exhibit at Johnson "Wayang Kulit: The Art of Javanese Shadow Puppets," an exhibition of more than 50 carved and painted leather puppets and objects from related theater forms, will be on view at the Herbert F.

Johnson Museum of Art from Feb. 4 to March 22. The exhibition is being sponsored by the museum and Cornell's Southeast Asia Program.

"The purpose of the exhibition is to introduce the concept and technique of the shadow theater to an audience unfamiliar with its language and, at the same time, to exhibit the finely crafted puppets as works of art," said Susan Dixon Shedd, exhibition organizer and graduate assistant at the museum. Many of the puppets will be displayed in tableaux as they would appear during a performance and others will be shown alone to exhibit the particular beauty of their workmanship, their shadow or their style, according to Shedd.

There will also be photographic panels which illustrate the puppets being made and used in performance. Films of related interest will be shown at the museum from Feb. 10 to March 12.

The puppets have been chosen from the collection acquired by Cornell from Claire Holt, authority and author on the art of Indonesia, and from the collection assembled by Benedict R. Anderson, professor of government and associate director of the Southeast Asia Program at Cornell.

"The strength of the Southeast Asia Program makes Cornell an especially appropriate place for an exhibition of shadow puppets which, although a major art form in Java, are rarely seen in the

United States," said Thomas W. Leavitt, director of the museum.

In conjunction with the exhibit several special events have been scheduled. Sumarsam, Javanese musician and dalang (puppeteer), will demonstrate the shadow play. Sudanese artist Endo Suanda will demonstrate mask carving and masked dance.

The performances of each of these artists will be accompanied by the Cornell Gamelan Ensemble under the direction of Martin Hatch, assistant professor of music.

The performance schedule for Sumarsam is as follows:

Feb. 28, "Performance-Demonstration of a Scene from a Shadow Play," 8:15 p.m. at the museum.

March 1, "Children's Demonstration of Shadow Play," 2 p.m. at the museum. Suanda's schedule is:

March 17, "Mask Carving Demonstration," 10 a.m., Johnson Museum.

March 20, "Dance Demonstration," 10 a.m. Helen Newman Hall.

March 21, "Mask Carving Demonstration," 2-4 p.m. Johnson Museum.

March 22, "Dance Performance," 2 p.m. Johnson Museum.

L.H. Bailey Hortorium Mann Library 4th Floor. "Flowers From an Embroidered Garden," a small select exhibit on plants as inspiration for needlework. Monday through Friday, 8 a.m.-5 p.m., until March 1.

H.F. Johnson Museum "Alvar Aalto," through March 1. Drawings and photographs explore this 20th century Finnish architect's individualistic and humanistic approach to design.

"Wayang Kulit: The Art of Javanese Shadow Puppets," through March 22. Fifty carved and painted leather puppets introduce the concept and technique of the Javanese shadow theatre. Curated by graduate assistant Susan Shedd and sponsored in part by the Southeast Asia Program of Cornell. "Frederick Sommer at Seventy-five," through March 15. Drawings, photographs, musical scores and poetry. Sommers, a 1927 Cornell graduate, often uses disturbing or arresting images, simultaneously accessible to many levels of perception. "Museum in the Schools, Part II," Feb. 11 6:30-8:30 p.m. "Permanent Collection." Museum Hours: 10 a.m.-5 p.m., Tues. through Sunday.

Olin Library American Presidents. Elections and Autographs. A celebration of the Presidency from George Washington through the inauguration of Ronald Reagan. Banners, song sheets, posters and letters from the presidents on issues of the day—including Abe Lincoln's approval of the emancipation of slaves in the District of Columbia in 1862 and the first engrossed copy of the Emancipation Proclamation. Through April 13. SHOULD IT BE AN "ENGROSSED" COPY? OR PERHAPS "EMBOSSSED"? —shelly

Films

Unless otherwise noted films are under sponsorship of Cornell Cinema.

Friday

Feb. 6, 7:30 p.m. Uris Auditorium. Pentangle II Free Film Series: "Riverrun" (John Korty, U.S., 1970); short: "Imprint" (Jacques Cardon, France, 1975).

Feb. 6, 9:45 p.m. *Uris Hall Auditorium. "American Gigolo" (1980), directed by Paul Schrader, with Richard Gere, Lauren Hutton, Hector Elizondo.

Friday & Saturday

Feb. 6 & 7, 8 p.m. *Statler Auditorium. "Don Giovanni" (1979), directed by Joseph Losey, with Ruggero Raimondi, John Macurdy, Edda Moser.

Feb. 6 & 7, 11:45 p.m. *Statler Auditorium. "Flesh Gordon" (1974), directed by Howard Ziehm, with Jason Williams, Suzanne Fields, Joseph Hudgins.

Saturday

Feb. 7, 7:30 & 10 p.m. *Uris Hall Auditorium. "American Gigolo."

Sunday

Feb. 8, 2 p.m. *Uris Hall Auditorium. "Kidnapped" (1938), directed by Alfred L. Werker, with Freddie Bartholomew,

February		1981						
S	M	T	W	T	F	S		
1	2	3	4	5	6	7		
8	9	10	11	12	13	14		
15	16	17	18	19	20	21		
22	23	24	25	26	27	28		

Warner Baxter, John Carradine, Nigel Bruce. Co-sponsored by the Ithaca Youth Bureau.

Feb. 8, 8 p.m. *Uris Hall Auditorium. "The Bingo Long Traveling All-Stars and Motor Kings" (1976), directed by John Badham, with Billy Dee Williams, Richard Pryor, James Earl Jones.

Monday

Feb. 9, 9 p.m. *Uris Hall Auditorium. "Belle De Jour" (1967), directed by Luis Bunuel, with Catherine Deneuve, Michael Piccoli, Jean Sorel. Shown with "Lovemaking." Film Club members only.

Wednesday

Feb. 11, 8 p.m. *Uris Hall Auditorium. "The Girlfriends" (1978), directed by Claudia Weill, with Melanie Mayron, Eli Wallach. Anita Skinner. The Women's Studies February Film Series.

Thursday

Feb. 12, 8 p.m. Anabel Taylor Auditorium. "Generations of Resistance." A new film showing the history and an analysis of the South Africans' struggle for freedom. Sponsored by SOLSA. Free and open to the public.

Friday

Feb. 13, 7:30 p.m. Uris Auditorium. Pentangle II Free Film Series: "Cabiria" (Giovanni Pastrone, Italy, 1913); short: "Kino-Pravda No. 21" (Lennist Film Truth) (Dziga Vertov, U.S.S.R., 1925).

Feb. 13, 9:45 p.m. *Uris Hall Auditorium. "My Brilliant Career" (1979), directed by Gillian Armstrong, with Judy Davis, Sam Neill, Wendy Hughes.

Fri. & Sat.

Feb. 13 & 14, 7:30 p.m. *Statler Auditorium. "Airplane" (1980), directed by Jim Abrahams, Jerry Zucker, David Zucker, with Robert Stack, Julie Hagerty, Robert Hays.

Feb. 13 & 14, 10 p.m. *Statler Auditorium. "Invasion of the Body Snatchers" (1978), directed by Philip Kaufman, with Donald Sutherland, Brooke Adams, Leonard Nimoy.

Feb. 13 & 14, 12 midnight *Uris Hall Auditorium. "Silent Running" (1972), directed by Douglas Trumbull, with Bruce Dern, Cliff Potts, Ron Rifkin.

Saturday

Feb. 14, 7:30 & 9:45 p.m. *Uris Hall Auditorium. "My Brilliant Career."

Sunday

Feb. 15, 2 p.m. *Uris Hall Auditorium. "Master of the World" (1961), directed by William Witney, with Vincent Price, Charles Bronson. Co-sponsored by the Ithaca Youth Bureau.

Feb. 15, 8 p.m. *Uris Hall Auditorium. "The Autobiography of Miss Jane Pittman" (1973), directed by John Korty, with Cicely Tyson, Michael Murphy, Odetta.

Intramurals

Cross Country Skiing - Men, Women, Co-ed

The deadline on entries is Wed., Feb. 11 at 4 p.m. in the Intramural Office, Grumman Squash Courts Bldg. Race will be held on Sat., Feb. 14 at 12 noon starting at the Driving Range on the University Golf Course. Minimum of 4 to enter. (2) must finish to score as a team. Co-ed: equal number of men and women. Eye protection is mandatory. Back-up date is Sat., Feb. 21, if necessary.

Lectures

Thursday

Feb. 5, 8 p.m. Uris Hall Auditorium. Preston Thomas Memorial Lecture Series. Goran Schildt, Finnish art historian speaking on the work of Finnish architect Alvar Aalto. Open to the public.

Monday

Feb. 9, 7:30 p.m. Anabel Taylor One World Room. "America and World Community," an interdisciplinary course: "Consciousness, the Future, and World Community," Eldon Kenworthy, Associate Professor, Government. Open to all.

Charter for the Student Assembly

Preamble

After consultation with members of the student body, and to effect more extensive involvement in campus governance through a University Assembly and constituent assemblies representative of faculty, students, and employees, the President, through the authority granted him by the Board of Trustees, hereby establishes this charter for the Student Assembly of Cornell University.

Article I: Legislative Authority and Responsibilities

Section 1. The Student Assembly (hereinafter referred to as the SA) will have legislative authority over the policies of the Departments of Dining, Residence Life, Unions and Activities and the Office of the Dean of Students, and the authority to review the budgets and actions of said departments.

Section 2. The SA will have authority over matters concerning the internal operation and maintenance of the SA and its committees, including the proposal of amendments to the SA Charter and creation of bylaws and procedures for the SA.

Section 3. The SA will have the authority and the responsibility to examine any matters which involve the interests or concern the welfare of the student community and to make proposals concerning those issues to the appropriate officers or decision-making bodies of the University.

Section 4. The Provost will consult with the Student Assembly in the formulation of the University Calendar. The Student Assembly may review and ask for reconsideration of the calendar before it becomes final. In addition, the Student Assembly may propose changes in the calendar to the Provost.

Section 5. The Student Assembly may request and obtain specific information from the President regarding any subject which it deems of general student concern. If such a request is made, and said information is not furnished, the President will report to the Student Assembly the reasons why said information cannot be furnished.

Section 6. The SA will have authority and responsibility to conduct public hearings, forums, and referendums concerning topics of current student interest, and to determine in other appropriate ways student needs and opinions.

Section 7. Legislative actions of the SA will be reported by a co-speaker to the President. The SA will respond to any requests for information from the President on its actions. The President may also request reconsideration of legislation proposed by the SA. Such a request must be filed within thirty days of notification of the legislation. The SA will take action on such a request, and, if the legislation is upheld, the SA will inform the President.

Section 8. The Assembly will present an annual report at the last SA meeting of the spring term to the President of the University and the student population. The report will include a summary of the Assembly's work during the preceding year and, in addition, describe any unresolved issues that are expected to arise in the future. All members of the Cornell community will have access to this report.

Section 9. The President or his appointee will make a report in writing to the Student Assembly at the end of each semester. This report will be due at the beginning of the last Student Assembly meeting of each semester. This report will include 1) the status of all policies and departments affected by campus government legislation during the semester; 2) the status of all Student Assembly legislative actions awaiting Presidential consideration; 3) progress reports requested by the co-speakers on any past legislative action(s).

Section 10. The SA will report in writing its legislative actions (other than those concerning the Departments of Dining, Residence Life, Unions and Activities and the Office of the Dean of Students) to the Employee Assembly and the Faculty Council of Representatives, in conjunction with reporting of actions to the President. The actions will be reported following each meeting by an Assembly member designated by the SA.

Section 11. If one of the other two constituency Assemblies at its next meeting following the date of the report decides, by a two-thirds vote, that the SA action impinges on its jurisdiction, the SA will consider it necessary to establish a joint committee to reconcile differences between the assemblies. The committee, to be established by the respective chairpersons/co-speakers, will propose to the SA legislation satisfactory to both assemblies within twenty days following the date of the two-thirds vote. If an impasse results, the matter will be referred to the University Assembly for resolution. Any action taken by the SA following the committee's work will be considered new action.

Section 12. The SA will decide by a two-thirds vote whether an action of another constituency assembly impinges on its jurisdiction. Comparable procedures for the reconciliation of differences will be pursued.

Section 13. If the second of those two Assemblies also determines, by two-thirds vote at its next meeting following the day of the report, that the SA action impinges on its individual jurisdiction, then the said action will be transferred to the University Assembly for consideration and disposition.

Section 14. Actions taken by the SA concerning the Departments of Dining, Residence Life, Unions and Activities, and the Office of the Dean of Students will be reported to the Employee Assembly and the Faculty Council of Representatives for their information.

Section 15. The voting members of the SA will, by whatever means they deem appropriate, select nine of themselves to serve as delegate members of the University Assembly.

Section 16. The SA will have the authority to appoint student members of the University Assembly committees.

Section 17. The powers of the Student Assembly shall be exercised within the procedures described in Article 1.3.1 of the Charter of the University Assembly*

* The Charter of the University Assembly, Article 1.3.1 reads: "Legislative actions of the University Assembly shall be reported to the President. If the action is acceptable, the President will so notify the Assembly. The University Assembly shall respond to any requests from the President for information or reconsideration of any actions. The request for reconsideration must be made within thirty days of notification of the original action. If, after such reconsideration, the University Assembly reaffirms the action and if the President still deems the action to be defective, the President may veto the action of the University Assembly. Any action on which reconsideration has not been requested within thirty days of notification to the President shall be presumed to be approved by the President."

Article II Amendments to the SA Charter

Section 1. Upon signing of a petition by 100 Cornell students, an amendment to the Charter may be presented to the SA for consideration. Within two weeks after the presentation of the petition, the SA will discuss the proposed amendment. If two-thirds of the SA's members vote to accept the proposed amendment, it will be valid as

a part of this Charter, subject to the restrictions of Article II, Section 3. It is not necessary that the form and wording of the amendment as voted upon by the SA be identical in form and wording to that of the petition so long as the intent and the meaning of the petitioners is preserved.

Section 2. Any voting members of the SA may present an amendment to the entire SA for consideration. Within two weeks after such presentation the SA will discuss the proposed amendment(s). Under no circumstances will this Charter be amended without the consent of two-thirds of the voting members of the SA.

Section 3. Amendments dealing with legislative authority belonging to the Student Assembly, and with the membership and amendment procedure, are subject to the approval of the President.

Article III: Membership

Section 1. The SA will consist of 23 voting members who are registered students* at Cornell University. Fifteen voting members of the SA will be elected by and from the student populations of the colleges and schools, one each from: the College of Architecture, Art and Planning; the Graduate School of Business and Public Administration; the School of Hotel Administration; the College of Human Ecology; the School of Industrial and Labor Relations; the Law School; and the College of Veterinary Medicine. Two each will be elected from: the College of Agriculture and Life Sciences; the College of Arts and Sciences; the College of Engineering; and the Graduate School. In addition, eight voting members will be elected at-large by and from within the University student population as a whole. The Student Assembly may allocate not more than two of its eight at-large seats to a constituent group or groups of students which it determines to be underrepresented. Should the Assembly determine to allocate a seat or seats to specified groups of students, such allocation shall be in accordance with procedures promulgated by the Student Assembly and contained in its procedures and/or bylaws. Should there be no candidate running for a given seat, the seat will be considered vacant.

*A student is any person who holds a currently valid student identification card.

Section 2. All elected members are elected to a one year term, with no limit as to the number of terms they may serve.

Section 3. All members of the Cornell University community are considered non-voting members of the SA, and are encouraged to attend and participate in meetings. The SA has no designated ex officio members. The President will appoint one member of the administration to serve as consultant to the SA at its meetings.

Section 4. Any voting members who are absent for three consecutive regularly-scheduled meetings or for six regularly-scheduled meetings cumulatively during their term, will lose their right to vote and their position will be considered vacated. The remaining voting members will then fill the vacancy by seating the highest ranked non-winning candidate in the last election from the same constituency. If the highest ranked person declines, the seat will be offered to the next highest ranked non-winning candidate and so on until the seat is filled. If this procedure has been followed and the seat still remains vacant, the SA will make every effort to fill the vacancy(ies) with a member(s) of the unrepresented constituency. Should the SA have no success in filling the vacancy(ies) by this method, a five-member ad hoc committee will have the responsibility to appoint an appropriate representative. This committee will solicit applications from

the proper constituency by publicly announcing the competition for the seat.

Article IV: Officers

Section 1. The SA will, as soon as possible after the spring election, hold an organizational and planning meeting to elect two co-speakers and any other officers it deems important to the normal operation of the SA. One of the out-going co-speakers will preside at that organization meeting. Each nominee for the respective offices shall be subject to two-thirds approval of the SA voting members in attendance. After such internal election, the newly-elected officers will undertake the immediate responsibilities of their positions. The SA will also elect nine of its voting members to the University Assembly. Self-nomination will be in order in each of these elections.

Article V: Proctections

Section 1. The Student Assembly and its committees shall respect and protect the rights of individual members of the Cornell community.

Section 2. When a subject under discussion or examination requires the use of personal confidential information, all reasonable efforts shall be made to safeguard the confidentiality of this information.

Article VI: Procedures

Section 1. The SA, at its first organizational and planning meeting of the academic year, will establish and adopt a schedule of meetings for the balance of the academic year. These meetings will be referred to as "regularly-scheduled meetings," and will be publicly announced throughout the year.

Section 2. One or both co-speakers may convene special meetings of the SA to consider issues of immediate and pressing concern. A co-speaker will also call a special meeting after being instructed to do so by six of the voting members of the SA.

Section 3. With the concurrence of two thirds of the voting members in attendance, the SA or any of its committees may go into executive session only to discuss confidential matters as defined in Article V. No policy determinations will be made in an executive session.

Section 4. A quorum will consist of 12 of the voting members of the SA.

Section 5. Speaking privileges will be open to the entire Cornell community, including students, faculty and staff. The co-speakers may choose to limit speaking privileges or add procedures for granting speaking privileges only if deemed necessary for the efficient operation of the SA.

Section 6. All debate and general conduct and behavior on the floor of the SA not explicitly addressed in this document will be that of Robert's Rules of Order Revised subject to revision in accordance with the needs of the SA.

Section 7. The agenda of the SA's regularly-scheduled meetings will be compiled by the co-speakers. Any member of the Cornell community may request that an item be included on the agenda. The agenda to date will be made public at least 24 hours prior to the commencement of the SA meeting. Items may be added to the agenda at any time.

Section 8. The minutes of the SA meetings and its committee meetings will be available to all members of the Cornell community, except for those pertaining to portions conducted in executive session.

Section 9. The SA may establish bylaws and other procedural rules as are necessary for the normal and efficient operation of the Assembly. The adoption of such bylaws and rules will be subject to a two-thirds affirmative vote by the voting members in attendance.

Section 10. The SA will work closely with

the Faculty Council of Representatives and the Employee Assembly to establish an effective mechanism of communication among the three bodies.

Article VII: Committees

Section 1. The SA will create and staff committees dealing with issues concerning the Departments of Dining, Residence Life, Unions and Activities, and the Office of the Dean of Students. It will also create and staff any standing or ad hoc committees which it deems useful in performing its duties. It may also create committees to consider any issues of student concern. All such committees will report directly to the SA.

Section 2. SA committees will develop policy recommendations and present them to the SA for discussion and action. Final policy determination is left to the discretion of the SA.

Section 3. The SA standing committees will have a voting member of the SA serving on each committee.

Section 4. Faculty and/or Employee representatives may serve on a student committee if the members decide that it is necessary. Non-student members of the SA committees may be either voting or serve as an ex officio communication link, according to the wishes of the student members of the committee.

Section 5. All committee meetings are open to members of the Cornell community with the exception of those meetings dealt with in Article VI, Section 3.

Section 6. Committee agenda items may be submitted by any committee member, SA member, or any other member of the Cornell community.

Section 7. The SA will have Review Committees and Student Interest Committees.

Review Committees

Finance Committees: The SA will determine the policies for the allocation and

use of funds for student organizations. The SA will also hear appeals from decisions of the Undergraduate Student Finance Commission, Graduate Student Finance Commission, and International Student Finance Commission.

Committee on Dining Services: The committee will determine policies for the Department of Dining Services.

Committee on Residence Life: The committee will determine policies for student residences owned and operated by the University, and will deal with matters of concern in off-campus residences.

Committee on Student Life: The committee will determine the policies for the Office of the Dean of Students, and the policies for the registration, regulation and scheduling of events by the Organizations and Activities Review Committee (OARC).

Unions and Activities Board of Governors: The committee will determine the policies for the Department of Unions and Activities, including, but not limited to, the Alfalfa Room Board, Cornell Cinema, the Cornell Concert Commission, the Third World Student Programming Board, the University Unions Program Board, Wilderness Reflections, the North Campus Union, Noyes Center, and Willard Straight Hall.

Student Grievance Committee: The committee will establish and review the activities of the Student Ombudsman, who will be selected by the University Ombudsman with the concurrence of the Student Assembly. The committee will make recommendations for improvements in problem areas of grievance handling.

Duties of the Student Ombudsman:

- to help students untangle red tape
- to represent students in the case of serious grievances
- to work closely with the University Ombudsman and Judicial Advisor
- to refer to the Grievance Committee, or the SA, or to the University Assembly any problems which indicate a systematic pattern of grievances rather than an indi-

vidual, isolated grievance.

Student Interest Committees

Communications: The committee will ensure a direct and ever-present link between students active in campus government and students at large by such means as conducting polls, referendums, forums, and hearings. It will also actively publicize activities and meetings of the SA and its committees, and relay student interests to the SA.

Student Priorities: The committee will review and establish priorities for programs affecting Cornell students, and ensure that Division of Campus Life budgets reflect those priorities.

Minority and Third World Affairs Committee: The committee will oversee and recommend policy to the SA on matters of concern to minority and third world members of the student community.

International Student Affairs Committee: The committee will oversee and recommend policy to the SA on matters of concern to international students.

Committee on Womyn's Affairs: The committee will oversee and recommend policy to the SA on matters of concern to womyn in the student community.

Student Academic Review Committee: The committee will review and define student priorities on educational policy, and will work with Faculty committees and College Educational Policy Committees to integrate those priorities into educational policy.

Section 8. The Staffing Committee will appoint students to the SA Review Committees and student positions on the standing committees of the University Assembly.

a. The Staffing Committee will be made up of three voting members of the SA and two other students. The SA will select the three SA members of the Staffing Committee at their organizational meeting. The SA will select two other students at the beginning of the academic year.

b. The Staffing Committee will solicit

student applications for committee positions.

c. The Staffing Committee will choose members and alternates for standing committees of the SA and University Assembly in the spring. The appointments for a committee will be made in consultation with one to three present student members of that committee. Vacancies will be filled as they arise using the same procedure.

d. When less than three members exist on a standing committee, as with newly-established committees, the Staffing Committee will select all student members.

e. The Finance Committee will have partial autonomy of selection procedures subject to review and reassignment when reported to the SA.

f. All decisions of the Staffing Committee will be subject to review of the SA.

g. The selection procedure for the Student Interest Committees will be open. There will be no appointed positions other than the SA members serving on them. The SA will determine if a specific number of voting members should be set for a particular committee.

Section 9. Loss of committee membership occurs when a student fails to meet with the committee three consecutive times or six times in one semester. The student may apply for reappointment when extenuating circumstances warrant such consideration.

Section 10. SA standing committees will report any membership changes to the SA.

Section 11. If the Cornell student community no longer needs the services of a specified committee, the SA may dissolve that committee by a two-thirds vote of the SA members present, or may re-delegate matters to another committee.

Section 12. The SA will have the authority to create ad hoc committees on any issue(s) that it determines important to the needs and concerns of students in the community. Such ad hoc committees will report directly to the SA, and are staffed by the SA.

Committee Comments on Student Charter

DRAFTING COMMITTEE COMMENTS

Article I, Section 3. The SA is the official voice of the student body. It therefore has an obligation to deal with any and all topics of interest to the student body. Recommendations and resolutions on any issue which the SA deems to be in the interest of the student body are in order.

Article I, Section 4. The University Calendar is of direct student concern. The Student Assembly must have input in formulating the Calendar, and should propose any changes it deems necessary to the Provost. The Student Assembly will seek as much student input as possible.

Article I, Section 5. For the efficient operation of the Assembly, the flow of information from other areas of the University is essential.

Article I, Section 6. We recommend that this authority be used as often as needed. Referendums and hearings are important and effective means for promoting student participation and for canvassing student opinion.

Article I, Section 7. Legislation enacted by the Student Assembly should be implemented with the utmost speed. The President should work closely with the Student Assembly on legislative action. The ultimate authority for the implementation of enacted legislation will rest with the President.

Article I, Section 8. Unimpeded flow of information between the Assembly and the rest of the Cornell community is of utmost importance.

Article I, Sections 10 and 11. The formation of separate constituent assemblies was aimed at ensuring that issues would come before appropriate groups. However, occasions may arise when one assembly feels that another assembly is considering an issue which affects it to a large degree. The mechanism in Section 11 enables differences over jurisdictions to be reconciled. We strongly recommend that when such differences arise, they be reconciled as quickly as possible, so that legislation does not get bogged down in procedures.

Article I, Section 12. This section is also aimed at the resolution of jurisdictional differences. Although the exact procedure is not specified, we advise the SA to keep in mind the importance of the expeditious handling of such situations.

Article I, Section 14. These four departments are special in that their policies fall under the jurisdiction of the SA only. The departments deliver services to students, and should be controlled by students. The provision for reporting to the other assemblies is aimed at promoting

more effective communication between the constituent assemblies and at avoiding duplication of efforts.

Article I, Sections 15 and 16. Since the University Assembly will deal with matters of joint concern to the students and other constituencies of the University, it is essential that the student members of the University Assembly be chosen from the Student Assembly, the official voice of the student body.

Article II, Section 1. We recommend that 100 students would represent sufficient concern for an amendment to merit consideration by the Student Assembly.

Article II, Section 2. A voting member of the Student Assembly represents a constituency, as apparent in his/her election. It is therefore not necessary that a voting member of the SA submit a petition as required of a non-voting member when presenting an amendment for consideration.

Article II, Section 3. This charter is established by the President of Cornell University and therefore all amendments to this charter dealing with legislative authority must be approved by the President.

Article III, Section 1. Proportional representation was an important consideration in establishing the membership of the SA. It is important that the link between the representatives and the electorate be strengthened. This is the rationale for breaking down the representation by school. The eight at-large seats were included so as not to restrict the participation of seriously interested students who might be excluded by the school quotas. Due to the inherent biases against minorities in our system and the particular problems which minority students face, it is important that minority and international students be represented in the student government.

The SA should not hesitate to increase its size, should participation and support warrant such expansion.

Article III, Section 2. One year terms serve to maintain a constant flow of new ideas and eliminates the possibility of members losing interest or burning out. Re-election is always possible for someone with a genuine interest who has done a good job. A one-year commitment will attract greater interest from the students than a longer required commitment.

Article III, Section 3. The desired system is

one that will be the most democratic and will encourage the greatest participation and support from the student body and the community.

Article III, Section 4. We recommend that vacancies be filled by students who have attended several meetings. An efficient system for filling vacancies ensures that the Assembly will always be complete. At the same time, an avenue is available for participation outside of the electoral process. We recommend a sign-in sheet for non-voting members at every meeting to ascertain three-times attendance.

Article IV, Section 1. Two equally responsible co-speakers were chosen in an effort to limit the accumulation of power by any individual(s) over the meetings or operations of the SA.

We advise the SA to limit, as much as possible, the number of officers they appoint and the power invested in those officers. The appointments should be made only when absolutely necessary for the operating efficiency of the SA.

We advise the SA to rotate the offices of co-speakers at least every term.

Article V, Section 1. The rights of individual students include specifically those rights of students guaranteed by the University as outlined in the Statement of Student Rights. In order that students and other members of the Cornell community may continue to enjoy and appreciate the diversity of opportunity and freedom of choice at Cornell University, we recommend that the SA give the highest priority to the protection of such rights.

Article V, Section 2. Confidential information is meant to include any and all information that, if publicly exposed, would endanger the privacy, safety or security of any member of the Cornell community (students, faculty and staff), constitute a breach of any individual right guaranteed by the University, or otherwise aggravate the integrity of the Cornell community.

Article VI, Section 1. We recommend that the SA seek out every available mechanism for making the Cornell community aware of the place, date, and time of its meetings.

Article VI, Section 2. Special meetings include those meetings necessary to consider problems and issues that may arise between regularly-scheduled meetings or, for reasons determined by the SA, deserve the exclusive and immediate attention afforded by a special meeting.

Article VI, Section 6. We recommend that the SA, in its by-laws, give exclusive authority to the co-speakers to modify Robert's Rules of Order Revised as is necessary to promote efficiency and accommodate the needs of the SA.

Article VI, Section 10. Realizing past problems with communication efforts among the different decision-making bodies on the Cornell campus, we recommend that the SA make a conscious effort to maintain open lines of communication with its primary constituency and the other adjunct bodies of the University system of governance.

Article VII, Section 1. Whenever possible, the actual formulation of policy will take place in committees. Committees serve to deal with and advise the Assembly on specific issues. We recommend that the SA remain aware of current issues of concern to the Cornell community and create committees in response to such issues.

Article VII, Section 2. In order that student representation be maintained in all policy-making decisions, final decisions as to policy will be reached by the full Assembly.

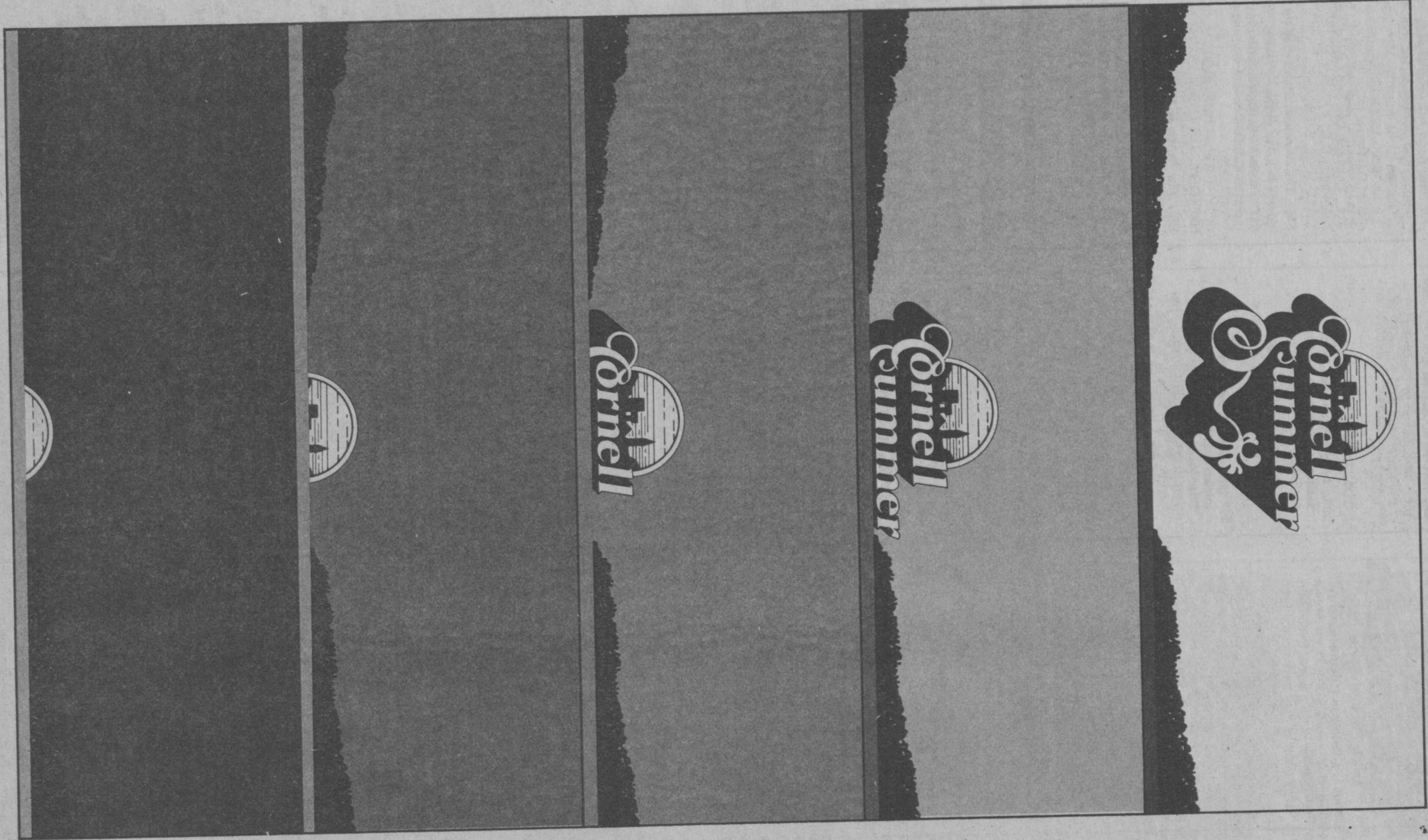
Article VII, Section 3. A voting member of the SA will serve on each standing committee in order that an effective line of communication between the committees and the Assembly may be maintained.

Article VII, Section 4. Faculty and Employee input is recognized as being potentially valuable in many instances. Therefore we recommend that Faculty and Employee participation be encouraged by the SA and its committees.

Article VII, Section 5. Matters determined to require executive session by two-thirds vote of the SA shall be closed to non-voting members. We strongly recommend that meetings held in executive session be imposed only when absolutely necessary. Open meetings should be adhered to as often as possible.

Article VII, Section 7. There are two types of committees on the SA. Review Committees work with the particular departments under SA jurisdiction to formulate policies. Because these committees will have to develop knowledge of the departments they review, they should have a fixed membership. We recommend that these committees have seven voting members. Student Interest Committees deal with problem areas not necessarily related to a particular department. The actions of these committees will derive from the interests of students. Because these commit-

Cornell Summer 1981



General Information

The rate of tuition for courses in the regular sessions is \$125 a credit plus a general fee of \$5 a week. In addition, some courses may have course fees. More detailed information is available from Cornell University Summer Session, 105 Day Hall, (B12 Ives Hall after March 1, 1981) Ithaca, New York 14853 (telephone: 607/256-4987), or in the Announcement, which will be published in March 1981.

Courses designated **U** offer credit at the undergraduate level; those with a **G** carry graduate-level credit. The names of the days classes are held are listed by their first letter except in the case of Thursday, for which **R** is used.

The courses and teaching personnel listed herein are subject to change at any time by official action of Cornell University.

Three-Week Session

June 3-26

ANTHROPOLOGY

- 113 **The Comparison of Cultures (U,G)** 3 credits (4-credit option available). M-F 1:30-3:45. D. H. Holmberg.
- 150 **The Discovery of America (U,G)** 3 credits. M-F 9-11:15 T. F. Lynch.

ARCHITECTURE

- 251 (also Art 161) **Beginning Photography (U,G)** 3 credits. See Art 161 below.

ART

- 121 **Painting (U,G)** 3 credits, M-F 8:30-12. A. Singer.
- 151 **Introductory Drawing (U,G)** 3 credits. M-F 8:30-12. A. Singer.
- 161 (also Arch 251) **Beginning Photography (U,G)** 3 credits. Section 1, M-F 9-12, plus darkroom work. Section 2, M-F 1-4, plus darkroom work. Staff.
- 270 **Special Studios (U,G)** Variable credit. Hours and credit by arrangement.

BIOLOGICAL SCIENCES

- 421 **Comparative Vertebrate Ethology (U,G)** 3 credits. M-F 9-11, plus daily field trips. W. C. Dilger.
- 432 **Survey of Cell Biology (U,G)** 3 credits. M-F 9:30-12. M. V. Hinkle.

CHEMICAL ENGINEERING

- 110 **Mass and Energy Balances (U,G)** 3 credits. R. G. Thorpe.

CITY AND REGIONAL PLANNING

- 440 (also Econ 302 or Govt 302) **The Impact and Control of Technological Change (U,G)** 4 credits. M-F 9:30-10:45, 11:30-12:30. S. L. Del Sesto.

COMPUTER SCIENCE

- 100 **Introduction to Computer Programming (U,G)** 3 credits. M-F 9:30-11:45.

ECONOMICS

- 101 **Introductory Economics: Macroeconomics (U,G)** 3 credits. M-F 9:30-12. T. Bayard.
- 102 **Introductory Economics: Microeconomics (U,G)** 3 credits. M-F 9:30-12. E. Grinols.
- 302 (also Govt 302 or CRP 440) **The Impact and Control of Technological Change (U,G)** 4 credits. M-F 9:30-10:45, 11:30-12:30. S. L. Del Sesto.
- 311 **Intermediate Microeconomic Theory (U,G)** 4 credits. M-F 9:30-12. H. Wan.
- 312 **Intermediate Macroeconomic Theory (U,G)** 4 credits. M-F 9:30-12. G. Staller.
- 331 **Money and Credit (U,G)** 4 credits. M-F 9:30-12. U. Possen.
- 333 **Theory and Practice of Financial Asset Markets (U,G)** 4 credits. M-F 9:30-12. T. Davis.
- 352 **Public Regulation of Business (U,G)** 4 credits. M-F 9:30-12. R. Masson.
- 362 **International Monetary Theory and Policy (U,G)** 4 credits. M-F 9:30-12. L. Ebrill.
- 371 **Public Policy and Economic Development (U,G)** 4 credits. M-F 9:30-12. F. Golay.

ELECTRICAL ENGINEERING

- 210 **Introduction to Electrical Systems (U)** 3 credits. Lecture-recitations M-F 9-10:15, 10:30-11:30. W. H. Erickson.
- 676 **Microprocessor Systems (U,G)** 3 credits. Lectures M-F 9-10:15, 10:30-11:30. N. M. Vrana.

ENGLISH

- 227 **Shakespeare (U)** 3 credits. M-F 9-10:15, 10:30-11:45. C. Levy.
- 270 **The Reading of Fiction (U)** 3 credits. M-F 9-10:15, 10:30-11:45. E. Fogel.
- 271 **The Reading of Poetry (U)** 3 credits. M-F 9-10:15, 10:30-11:30. S. Siegel.
- 288 **The Art of the Essay: Autobiographical Writing (U)** 3 credits. M-F 9-10:15, 10:30-11:45. H. M. McMillin.
- 470 **James Joyce: Ulysses (U,G)** 4 credits. M-F 9:30-10:45. D. Schwarz.
- 477 **Children's Literature (U,G)** 4 credits. M-F 9-10:15, 10:30-11:45. T. Hill.

GERMAN LITERATURE

- 314 **Nietzsche: The Man and the Artist (U,G)** 4 credits. M-F 9:30-10:30, 11-12:15. S. L. Gilman.
- 324 (Also Theat Arts 324) **Founders of the Modern Drama (U,G)** 4 credits. M-F 10-11, 2:30-3:45. S. Williams.

GOVERNMENT

- 111 **The Government of the United States (U,G)** 3 credits. M-F 10:30-12:45. D. W. Walker.
- 181 **Introduction to International Relations (U,G)** 3 credits. M-F 9-11:15. B. Grosscup.
- 300 (Section 1) **Politics of Energy (U,G)** 4 credits. M-F 8-9:30; 10-11. E. Kenworthy.

- 302 (also Econ 302 or CRP 440) **The Impact and Control of Technological Change (U,G)** 4 credits. M-F 9:30-10:45, 11:30-12:30. S. L. Del Sesto.
- 314 **Common Law and Lawyers in America (U,G)** 4 credits. M-F 8:15-10:30. E. Eisenach.
- 316 **The American Presidency (U,G)** 4 credits. M-F 9-11:15. R. Kurlander.
- 361 **Modern Ideologies: Liberalism and Its Critics** 4 credits. M-F 8:15-10:30.

HISTORY

- 101 **The Family in Modern Europe and America (U)** 3 credits. M-F 9:30-10:45, 11-12. D. Narrett.
- 299 **Introduction to the History of China, Early to Modern Times (U,G)** 4 credits. M-F 8:45-10, 11-12:15. C. A. Peterson.

- 325 **Introductory Psychopathology (U,G)** 3 credits. M-F 10-12:15. R. Mack.
- 350 **Statistics and Research Design (U,G)** 4 credits. M-F 11:30-1:45. J. Cunningham.
- 385 **Theories of Personality (U,G)** 3 credits. M-F 10-12:15. D. Micham.
- 437 **Human Behavior Genetics (U,G)** 3 credits. M-F 10-12:15. R. Dworkin.

ROMANCE STUDIES

- 201 **Introduction to French Literature: The Modern Tradition (U,G)** 3 credits. M-F 9:30-11:45. D. Grossvogel.

RURAL SOCIOLOGY

- 360 **The Old Order Amish: Folk Society or Model for the Future? (U,G)** 3 credits. M-F 9-11:15. M. A. Olshan.

Accelerate and receive financial aid in the same proportion as in other terms. Details at the Office of Financial Aid.



INDUSTRIAL AND LABOR RELATIONS

COLLECTIVE BARGAINING

- 686 **Collective Bargaining in the Public Sector (U,G)** 3 credits. M T W R 7-10 p.m. J. Burton.

LABOR ECONOMICS

- 240 **Economics of Wages and Employment (U,G)** 3 credits. M-F 1:30-2:30, 2:45-4. R. Smith.
- 344 **Comparative Economic Systems: Soviet Russia and China (U,G)** 4 credits. M-F 9:15-10:30, 10:45-11:45. M. G. Clark.

ORGANIZATIONAL BEHAVIOR

- 373 **Organizational Behavior Simulations (U,G)** 3 credits. M-F 1:30-3:45. R. Stern.

MATHEMATICS

- 111 **Analytic Geometry and Calculus (U)** 3 credits. M-F 9:30-10:45, 2-3:15.

NATURAL RESOURCES

- 230 **Diet for a Small Planet (U,G)** 3 credits. M-F 9:45-12:15. G. M. Berardi.

NEAR EASTERN STUDIES

- 241 **The Holocaust: European Jewry, 1933-45 (U,G)** 3 credits. M-F 10-11, 11:15-12:30. S. J. Zipperstein.

PSYCHOLOGY

- 209 **Developmental Psychology (U,G)** 4 credits. M-F 9-11:15. F. Keil and K. Lockhart-Keil.
- 281 (also Soc 281) **Interpersonal Relations and Group Processes (U,G)** 3 credits. M-F 9:30-11:45. L. Meltzer.

- 631 **Aging: Issues and Strategies in the 1980s (U,G)** 3 credits. M-F 9:15-11:30. P. Taietz.

SOCIOLOGY

- 243 **Family (U)** 3 credits (4-credit option available). M-F 9:30-11:45. D. Hayes.
- 251 **Sociology of Art (U)** 3 credits. M-F 12:30-2:45. K. Donow.
- 265 **Hispanic Americans (U)** 3 credits. M-F 2-3:15. A. Bibliowicz.
- 281 (also Psychology 281) **Interpersonal Relations and Small Groups (U,G)** 3 credits. M-F 9:30-11:45. L. Meltzer.
- 282 **Contemporary Issues in Sex Roles: The Dual-Career Family (U,G)** 3 credits. M-F 9:30-11:45. Mark Maier.
- 365 **Criminology (U)** 3 credits (4-credit option available). M-F 12:30-2:45. L. Zimmer.

THEATRE ARTS

- 324 (also Germn 324) **Founders of the Modern Drama (U,G)** 4 credits. M-F 10-11; 2:30-3:45. S. Williams.

THEORETICAL AND APPLIED MECHANICS

- 202 **Mechanics of Solids (U,G)** 3 credits. M-F 8:30-9:30, 10:30-11:15. Laboratory to be arranged.

Six-Week Session

June 29-August 11

AFRICANA STUDIES AND RESEARCH CENTER

- 131 Swahili (U,G)** 4 credits. M-F 9:30-10:45. Laboratory time to be arranged. A. Nanji.
- 204 History and Politics of Racism and Segregation: South Africa and North America (U,G)** 4 credits. M-F 11-12:15. J. C. Mbata.
- 470 Nineteenth-Century Resistance Movements (U,G)** 4 credits. M-F 2-3:15. J. C. Mbata.

ANTHROPOLOGY

- 111 Nature and Culture (U,G)** 3 credits (4-credit option available). M-F 9:30-10:45. I. A. Brady.
- 114 Human Origins (U,G)** 3 credits (4-credit option available). M-F 11-12:15. S. C. Saraydar.
- 388 Biological Determinism: A Critique (U,G)** 4 credits. M-F 12:30-1:45. I. A. Brady.

ARCHAEOLOGY

- 275 (also NES 249) Ancient Seafaring (U,G)** 3 credits. M-F 11-12:15. D. I. Owen.

ARCHITECTURE

- 125 Introduction to Architecture (U)** 6 credits. Morning and afternoon sessions. Staff.
- 251 (also Art 161) Beginning Photography (U,G)** 3 credits. M W F 2-4 plus darkroom work. Staff.
- 353 Large-Format Architectural Photography (U,G)** 3 credits. M W F 8:30-10:30. J. O. Bragstad.

ART

- 110 Color, Form, and Space (U,G)** 3 credits. M-F 9:30-10:45. N. Daly.
- 121 Painting (U,G)** 3 credits. M-F 11-1. A. Osias.
- 123 Landscape Drawing and Painting (U,G)** 3 credits. M-F 8:30-10:30. E. Mikus.
- 132 Introductory Silk-Screen Printing (U,G)** 3 credits. M T W R 7-9:30 p.m.
- 141 Sculpture (U,G)** 3-credits. M-F 2-4. A. Mooney.
- 154 Life and Still-Life Drawing (U,G)** 2 credits. June 29-July 20. M-F 9-12. Z. Blum.
- 155 Conceptual Drawing (U,G)** 2 credits. July 21-August 11. M-F 8:30-11:30. Z. Blum.
- 161 (also Arch 251) Beginning Photography (U,G)** 3 credits. M W F 2-4 plus darkroom work. Staff.
- 163 Advanced Photography Workshop (U,G)** 3 credits. M W F 2-4, plus darkroom work. Staff.
- 234 Landscape and the Transfer Lithograph (U,G)** 3 credits. M-F 11-1. G. Page.
- 270 Special Studios (U,G)** Variable credit. Hours and credits by arrangement.

ASTRONOMY

- 105 An Introduction to the Universe (U)** 3 credits. M-F 11-12:15; evening laboratories to be arranged.
- 106 Essential Ideas in Relativity and Cosmology (U)** 3 credits. M-F 9:30-10:45.

ATMOSPHERIC SCIENCES

- 101 Basic Principles of Meteorology (U,G)** 3 credits. Lectures and laboratory M-F 9:30-10:45. A. B. Pack.

BIOLOGICAL SCIENCES

- 100 General Biology (U)** 7 credits. Lectures M-F 9:30-11:50; labs M-F 1:30-4:30. C. H. McFadden and staff.
- 205 (also Phil 245) Biomedical Ethics (U,G)** 3 credits. M-F 12:30-1:45. J. M. Fischer.
- 240 Plant Physiology (U,G)** 5 credits. Lectures M-F 8-9:15; laboratories T R 1:30-4:30 (or T R 9:30-12:30 if enrollment is large). S. Williams and C. Reiss.
- 278 Comparative Anatomy (U,G)** 3 credits. M T W 9:30-12.
- 331 Principles of Biochemistry, Lectures (U,G)** 4 credits. M-F 8-10. J. M. Griffiths.
- 360 General Ecology (U,G)** 3 credits. Lectures M-F 12:30-1:45; afternoon field trips to be arranged.
- 389 Embryology (U,G)** 4 credits. Lectures M T W R 1:15-3:45; laboratories M T W R 1:15-3:15. A. W. Blackler.
- 471 Mammalogy (U,G)** 4 credits. M W 2-4:30, F 2-3:15; plus additional laboratory time and two weekend trips, to be arranged.
- 475 Ornithology (U,G)** 6 credits. Lectures M-F 8:30-10:30 (three lectures each week; days to be decided at first lecture meeting); morning field trips 6:30-8:30; and two four-day trips. Laboratories to be arranged. D. R. Gray.

BUSINESS AND PUBLIC ADMINISTRATION

- 590 Communication for Administrators (G)** 3 credits. M-F 8-9:15. M. D. Morris.

CHEMISTRY

- 103 Introduction to Chemistry (U)** 3 credits. June 29-July 20. Lectures M-F 10:10-12:05; laboratories and recitations M-F 1:25-4:25. S. T. Marcus and assistants.
- 104 Introduction to Chemistry (U)** 3 credits. July 21-August 11. Lectures M-F 10:10-12:05; laboratories and recitations M-F 1:25-4:25. S. T. Marcus and assistants.
- 207 General Chemistry (U)** 4 credits. June 29-July 20. Lectures M-F 8-9:50; recitations M-F 10-10:50; prelabs M-F 11-11:30; laboratories M-F 12:30-3:30. S. T. Marcus and assistants.
- 207 General Chemistry (U)** 4 credits. June 29-August 11. Lectures M W F 12:20-2:15; laboratories and recitations T R 12:20-4:25. S. T. Marcus and assistants.
- 208 General Chemistry (U)** 4 credits. July 21-August 11. Lectures M-F 8-9:50; recitations M-F 10-10:50; prelabs M-F 11-11:30; laboratories M-F 12:30-3:30. S. T. Marcus and assistants.

- 208 General Chemistry (U)** 4 credits. June 29-August 11. Lectures M W F 10:10-12:05; labs and recitations T R 8-12:05. S. T. Marcus and assistants.



CHEMICAL ENGINEERING

- 110 Mass and Energy Balances (U,G)** 3 credits. R. G. Thorpe.

CLASSICS**GREEK**

- 101 Greek for Beginners (U)** 4 credits. *June 29-July 20.* M-F 9:30-10:45, 12:30-1:45, plus one laboratory session a week. F. Ahl.
- 103 Attic Greek (U)** 4 credits. *July 21-August 11.* M-F 9:30-10:45, 12:30-1:45. Staff.

LATIN

- 105 Latin for Beginners (U)** 4 credits. *June 29-July 20.* M-F 8-9:15, 11-12:15, plus one laboratory session a week to be arranged. P. Kirkwood.
- 106 Elementary Latin (U)** 4 credits. *July 21-August 11.* M-F 8-9:15, 11-12:15. Staff.

CLASSICAL CIVILIZATION

- 100 Word Power (U)** 3 credits. M-F 9:30-10:45. M. Davies.
- 109 (also Engl 109) Introduction to Rhetoric (U)** 3 credits. M-F 8-9:15. F. Ahl.

COMMUNICATION ARTS

- 301 Oral Communication (U,G)** 3 credits. Section 1, M-F 8-9:15; Section 2, M-F 9:30-10:45; Section 3, M-F 11-12:15. B. Earle and staff.
- 312 Advertising and Promotion (U,G)** 3 credits. M-F 9:30-10:45. H. Cogan.

COMPARATIVE LITERATURE

- 121 Literatures from the Third World (U,G)** 3 credits. M-F 9:30-10:45. E. Hower.
- 325 Biblical Law (U,G)** 4 credits. M-F 8-9:15. C. M. Carmichael.
- 326 Christianity and Judaism (U,G)** 4 credits. M-F 9:30-10:45. C. M. Carmichael.

COMPUTER SCIENCE

- 100 Introduction to Computer Programming (U,G)** 3 credits. M-F 9:30-10:45.
- 101 The Computer Age (U,G)** 3 credits. M-F 9:30-10:45.
- 211 Computers and Programming (U,G)** 3 credits. M-F 9:30-10:45.
- 314 Introduction to Computer Systems and Organization (U,G)** 4 credits. M-F 9:30-10:45, plus laboratory.
- 410 Data Structures (U,G)** 4 credits. M-F 11-12:15.

ECONOMICS

- 101 Introductory Economics: Macroeconomics (U,G)** 3 credits. M-F 8-9:15. C. Fanning.
- 102 Introductory Economics: Microeconomics (U,G)** 3 credits. M-F 9:30-10:45. E. Carlsen.
- 105 Principles of Accounting (U,G)** 3 credits. M-F 11-12:15. E. Carlsen.
- 308 Public Policy and Microeconomic Analysis (U,G)** 4 credits. M-F 11-12:15. L. Falkson.
- 311 Intermediate Microeconomic Theory (U,G)** 4 credits. M-F 9:30-10:45. C. Fanning.
- 312 Intermediate Macroeconomic Theory (U,G)** 4 credits. M-F 9:30-10:45. M. Falkson.

- 320 Quantitative Methods (U,G)** 4 credits. M-F 9:30-10:45. A. Quester.
- 361 International Trade: Theory and Policy (U,G)** 4 credits. M-F 11-12:15. D. Wharton.
- 368 Comparative Economics: United States, Europe, and the Soviet Union (U,G)** 4 credits. M-F 11-12:15. R. Selucky.
- 383 Marxist Political Economy (U,G)** 4 credits. M-F 9:30-10:45. C. Gunn.

ENGLISH

- 109 (also Class 109) Introduction to Rhetoric (U)** 3 credits. M-F 8-9:15. F. Ahl.
- 133 Basic Forms of Writing (U)** 3 credits. Section 1, M-F 9:30-10:45; D. Keller. Section 2, M-F 9:30-10:45; F. Bogle. Section 3, M-F 11-12:15; P. Balbert.
- 135 Writing From Experience (U)** 3 credits. Section 1, M-F 8-9:15. Section 2, M-F 9:30-10:45. Section 3, M-F 11-12:15. Section 4, M-F 11-12:15.
- 136 Practical Prose Composition (U)** 3 credits. Section 1, M-F 8-9:15; L. Fakundiny. Section 2, M-F 9:30-10:45; K. Gottschalk. Section 3, M-F 11-12:15, L. Fakundiny.
- 137 Writing Workshop (U)** 1, 2, or 3 credits.
- 150 Introduction to Literature (U)** 3 credits. M-F 11-12:15. D. Fogel.
- 151 Reading Modern Literature (U)** 3 credits. Section 1, M-F 8-9:15; P. L. Marcus. Section 2, M-F 9:30-10:45; P. L. Marcus.
- 157 Classic American Authors (U)** 3 credits. M-F 8-9:15. M. Colacurcio.
- 158 Modern American Authors (U)** 3 credits. Section 1, M-F 9:30-10:45; A. Emery. Section 2, M-F 11-12:15; A. Emery.
- 270 The Reading of Fiction (U)** 3 credits. M-F 9:30-10:45. W. Wetherbee.
- 275 The American Literary Tradition (U)** 3 credits. M-F 9:30-10:45. P. Balbert.
- 289 The Art of the Essay (U)** 3 credits. M-F 11-12:15. R. T. Farrell.
- 319 Chaucer (U,G)** 4 credits. M-F 9:30-10:45. R. T. Farrell.
- 327 Shakespeare (U,G)** 4 credits. M-F 11-12:15. W. Wetherbee.
- 340 Romantic Poetry (U,G)** 4 credits. M-F 12:30-1:35. T. Kelley.
- 367 Modern American Novel (U,G)** 4 credits. M-F 11-12:15. D. Klopf.
- 372 Modern Drama (U,G)** 4 credits. M-F 12:30-1:45. D. Keller.
- 382 Narrative Writing (U,G)** 4 credits. M-F 11-12:15. R. Morgan.
- 384 Verse Writing (U,G)** 4 credits. M-F 9:30-10:45. A. Ammons.

ENTOMOLOGY

- 210 Field Entomology (U,G)** 4 credits. M W 9:30-10:45, T R 2-4:30, a late evening field trip each week to be arranged, and two Saturday field trips. J. E. Rawlins.

FLORICULTURE

- 210 Architectural Sketching and Rendering (U,G)** 3 credits. M-F 11-12:15. R. J. Lambert.

GEOLOGICAL SCIENCES

- 101 Introductory Geological Science (U)** 3 credits. *June 29-July 20.* Lectures M-F 9:30-11:20; laboratories M T W R 1:30-4. W. R. Brice.
- 102 Introduction to Historical Geology (U)** 3 credits. *July 21-August 11.* Lectures M-F 9:30-11:20; laboratories M-F 1:30-4. W. R. Brice.

GERMAN LITERATURE

- 109 Folk Tales and Folk Poetry (U)** 3 credits. M-F 9:30-10:45. B. Buettner.
- 201 Introduction to German Literature I (U)** 4 credits. M-F 2-3:15. P. Simpson.

GOVERNMENT

- 111 The Government of the United States (U,G)** 3 credits. M-F 11-12:15. K. Zuckert.
- 131 Introduction to Comparative Government and Politics (U,G)** 3 credits. M-F 9:30-10:45. A. Milnor.
- 161 Freedom and Justice in the Western Tradition: An Introduction to Political Theory (U,G)** 3 credits. M-F 9:30-10:45. E. Eisenach.
- 181 Introduction to International Relations (U,G)** 3 credits. M-F 8-9:15. G. Sheffer.
- 300 (Section 2) Politics of Terrorism (U,G)** 4 credits. M-F 8-9:15. D. Driscoll.
- 350 Comparative Revolutions (U,G)** 4 credits. M-F 9:30-10:45. L. Hochberg.
- 358 Politics of the Middle East (U,G)** 4 credits. M-F 11-12:15. G. Sheffer.
- 375 American Political Thought (U,G)** 4 credits. M-F 8-9:15. M. Zuckert.
- 389 International Law (U,G)** 4 credits. M-F 9:30-10:45. D. Driscoll.

HISTORY

- 141 Man and His Values in the Western Tradition (U)** 4 credits. A Freshman Seminar. M-F 9:30-10:45. L. P. Williams.
- 201 Introduction to American History: From the Beginning to 1865 (U,G)** 3 credits. M-F 9:30-10:45. F. Somkin.
- 202 Introduction to American History: From the Civil War to Recent Times (U,G)** 3 credits. M-F 11-12:15. F. Somkin.
- 384 Historical Studies in the Development of Modern Science (U,G)** 4 credits. M-F 11-12:15. L. P. Williams.
- 399 Authority, Community and the Individual in Twentieth-Century Japan (U,G)** 4 credits. M-F 8-9:15. J. V. Koschmann.

HISTORY OF ART

- 102 Writing about Art (U,G)** 3 credits. M-F 9:30-10:45. R. G. Calkins.
- 202 Survey of European Art: Renaissance to Modern (U,G)** 3 credits. M-F 11-12:15. R. G. Calkins.
- 261 Introduction to Art History: Modern Art (U,G)** 3 credits. M-F 12:30-1:45. E. Evett.

HUMAN DEVELOPMENT AND FAMILY STUDIES

- 115 Human Development: Infancy and Childhood (U)** 3 credits. M-F 9:30-10:45.
- 116 Human Development: Adolescence and Youth (U)** 3 credits. M-F 11-12:15.

- 117 Human Development: Adult Development and Aging (U)** 3 credits. M-F 9:30-10:45.

- 150 The Family in Modern Society (U)** 3 credits. M-F 9:30-10:45.

- 315 Human Sexuality: A Psychosocial Perspective (U)** 3 credits. M-F 11-12:15.

INDUSTRIAL AND LABOR RELATIONS**COLLECTIVE BARGAINING**

- 150 Labor Problems in American Society (U)** 3 credits. M-F 8-9:15. G. Korman.

ECONOMIC AND SOCIAL STATISTICS

- 510 Introductory Statistics for the Social Sciences (G)** 3 credits. Lectures M-F 9:30-10:45; 2 laboratory sessions each week, hours to be arranged. I. Blumen.

ORGANIZATIONAL BEHAVIOR

- 326 Sociology of Occupations (U,G)** 3 credits. M-F 9:30-10:45. H. Trice.
- 328 Cooperation, Competition, and Conflict Resolution (U,G)** 4 credits. M-F 11-12:15. E. Lawler.
- 370 The Study of Work Motivation (U,G)** 4 credits. M-F 11-12:15. L. Gruenfeld.
- 371 Individual Differences and Organizational Behavior (U,G)** 4 credits. M-F 2-4:30. L. Gruenfeld.
- 402 The Social Psychology of Bargaining (U,G)** 3 credits. M T W R 3:35-5:10. A. Shirrom.
- 405 Dramatic Events in Labor History as Told by Those Who Made It (U,G)** 3 credits. M-F 3-4:15. J. Morris.

JEWISH STUDIES

- 101 Jewish Contributions to Western Culture (U)** 3 credits. M-F 11-12:15. J. Cohen.

MATHEMATICS

- 105 Finite Mathematics for Biologists (U)** 3 credits. M-F 9:30-10:45.
- 107 Finite Mathematics with Applications (U)** 3 credits. M-F 8-9:15.
- 109 Precalculus (U)** 3 credits. M-F 8-9:15.
- 111 Analytic Geometry and Calculus (U)** 3 credits. M-F 8-9:15.
- 112 Analytic Geometry and Calculus (U)** 3 credits. M-F 8-9:15.
- 121 Calculus (U)** 3 credits. *June 29-July 20.* M-F 9:30-10:45, 2-3:15.
- 122 Calculus (U)** 3 credits. *July 21-August 11.* M-F 9:30-10:45, 2-3:15.
- 123 Analytic Geometry and Calculus (U)** 4 credits. M-F 8-9:15.
- 311 Elementary Analysis (U,G)** 4 credits. M-F 9:30-10:45.
- 331 Linear Algebra (U,G)** 4 credits. M-F 11-12:15.
- 370 Elementary Statistics (U,G)** 4 credits. M-F 9:30-10:45.

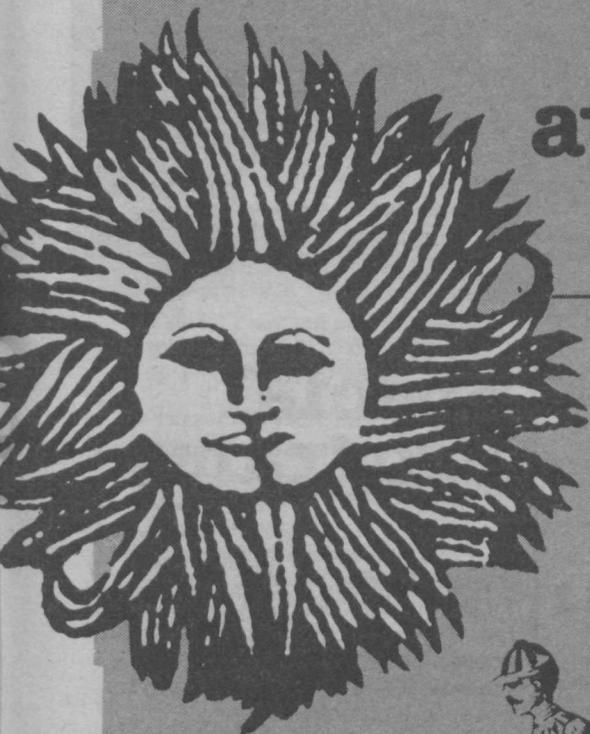
MECHANICAL AND AEROSPACE ENGINEERING

- 302 Technology, Society, and the Human Condition (U,G)** 3 credits. M-F 11-12:15. B. Conta.

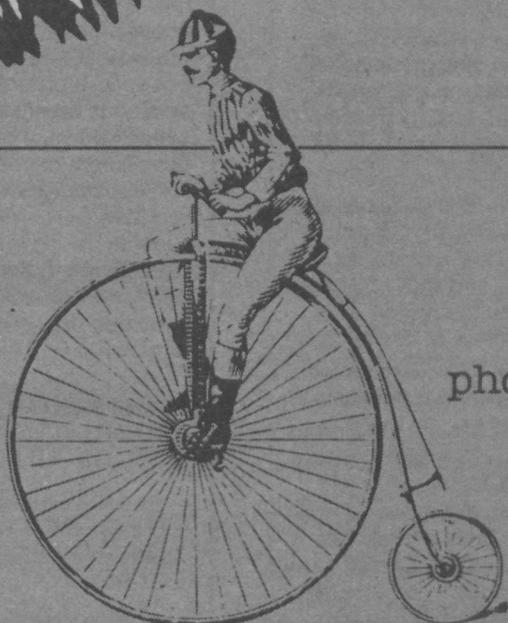
MICROBIOLOGY

- 290 General Microbiology, Lectures (U,G)** 3 credits. M-F 11-12:15. H. W. Seeley, Jr.

This Summer at Cornell You Can



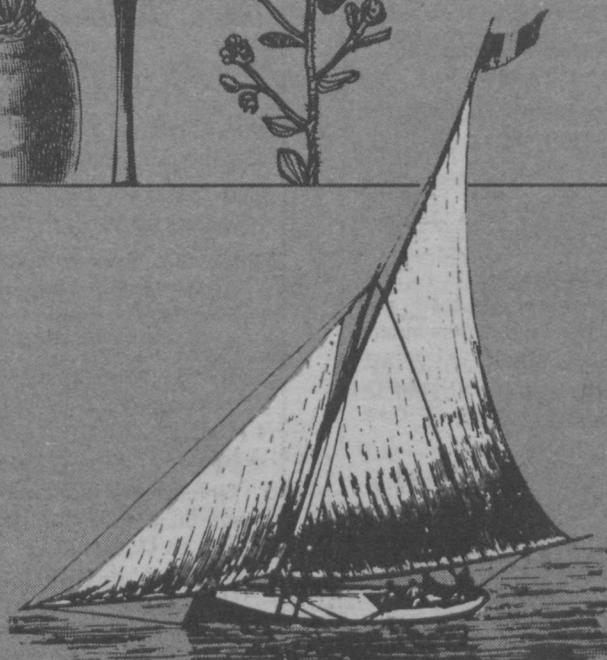
write
observe
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bike
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design
produce
browse
dig
touch
cook
dance
weave
plant



sail
read
draw
swim
act
golf
camp
canoe
sculpt

291 General Microbiology, Laboratory (U,G) 3 credits. M-F 2-4:30. J. Blankenship.

MODERN LANGUAGES AND LINGUISTICS

FRENCH

101 French Basic Course I (U) 6 credits. M-F 8. Staff.

102 French Basic Course II (U) 6 credits. M-F 8.

131 French Elementary Reading Course I (U,G) 3 credits. June 29-July 20. M-F 8.

132 French Elementary Reading Course I (U,G) 3 credits. July 21-August 11. M-F 8.

203 Intermediate Conversation and Composition (U,G) 3 credits. M-F 9:30-10:45; lectures T R 2-2:50. Professor and staff.

GERMAN

101 German Basic Course I (U) 6 credits. M-F 8. Staff.

131 German Elementary Reading Course I (U,G) 3 credits. June 29-July 20. M-F 8. Staff.

132 German Elementary Reading Course I (U,G) 3 credits. July 21-August 11. M-F 8; Staff.

ITALIAN

101 Italian Basic Course I (U) 6 credits. M-F 8. D. Stocchi.

LINGUISTICS

101 Introduction to the Scientific Study of Language (U,G) 4 credits. M-F 12:30-1:45.

PORTUGUESE

131 Portuguese Basic Course I (U,G) 3 credits. June 29-July 20. M-F 8. D. Wheeler.

132 Portuguese Basic Course II (U,G) 3 credits. July 21-August 11. M-F 8. D. Wheeler.

SPANISH

101 Spanish Basic Course I (U) 6 credits. M-F 8. Professor and staff.

102 Spanish Basic Course II (U) 6 credits. M-F 8. Staff.

203 Intermediate Conversation and Composition (U,G) 3 credits. M-F 9:30-10:45; lectures T R 2-2:50. Professor and staff.

MUSIC

103 Mainstreams of Popular Music (U) 3 credits. M-F 9:30-10:45. T. A. Sokol.

111 Sound, Sense, and Idea (U) 3 credits. M-F 9:30-10:45. C. Greenspan.

141 Rudiments of Music (U) 3 credits. M-F 2-3:15. D. R. M. Paterson.

331 Summer Session Choir (U) 1 credit. Rehearsals Tuesday 7:15-9 p.m. and Sunday 9:30 a.m. D. R. M. Paterson.

NATURAL RESOURCES

230 Diet For A Small Planet (U,G) 3 credits. M-F 11-12:15. G. M. Berardi.

450 Seminar: Natural Resources and the World Food Situation (U,G) 3 credits M-F 2-3:15. G. M. Berardi.

NEAR EASTERN STUDIES

101 Elementary Hebrew (U,G) 6 credits. M-F 9:30-10:45, 11-12:15. N. Scharf.

113 Colloquial Arabic (U,G) 6 credits. M-F 9:30-10:45, 11-12:15. R. Hoberman.

142 The World of the Ancient Near East (U) 3 credits. A Freshman Seminar. M-F 9:30-10:45. D. I. Owen.

249 (also Arkeo 275) Ancient Seafaring (U,G) 3 credits. M-F 11-12:15. D. I. Owen.

OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING

260 Introductory Engineering Probability (U,G) 3 credits. M-F 8-9:15. Staff.

622 Operations Research I (U,G) 3 credits. M-F 9:30-10:45. Staff.

PHILOSOPHY

100 Introduction to Philosophy (U) 3 credits. M-F 9:30-10:45. H. Newell.

101 Introduction to Philosophy (U) 3 credits. M-F 9:30-10:45.

103 Reasoning and Writing (U) 3 credits. M-F 8-9:15. H. Newell.

131 Logic: Evidence and Argument (U) 3 credits. M-F 11-12:15.

145 Contemporary Moral Issues (U) 3 credits. M-F 12:30-1:45.

186 Biology and Human Nature (U) 3 credits. M-F 9:30-10:45. K. Guyot.

245 (also Bio Sci 205) Biomedical Ethics (U,G) 3 credits. M-F 12:30-1:45. V. Fischer.

PHYSICAL EDUCATION

101 Basic Mountaineering (U,G) 1 credit. T 2-6, S 9-1. D. Morrissey.

110 Beginners Swimming 1 credit. M T W R 5 p.m. F. DeBruyn.

117 Scuba 1 credit. Hours to be arranged. J. Marshall.

131 Elementary Classical Ballet Technique (U,G) 1 credit. M-F 9:30-11. P. Saul.

134 (also Theatr 304) Intermediate Classical Ballet Technique (U,G) 1 credit.

156 Equitation 1 credit. Hours to be arranged. D. Sheraga.

157 Sailing 1 credit. T W 4:45 p.m. L. Bart.

173 Jogging 1 credit. M T R 1:30 p.m. F. DeBruyn.

331 Nautilus 1 credit. T R F 11:30 a.m. J. Chapman.

PHYSICS

112 Physics I: Mechanics and Heat (U) 4 credits. Lectures and discussions M-F 11-12:15; laboratories T R 2-5.

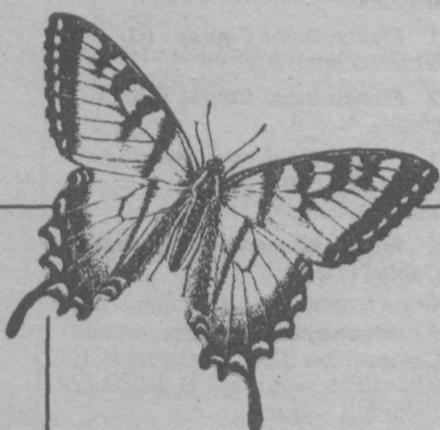
213 Physics II: Electricity and Magnetism (U) 4 credits. Lectures and discussions M-F 9:30-10:45; laboratories T R 2-5.

214 Physics III: Optics, Waves, and Particles (U) 4 credits. Lectures and discussions M-F 11-12:15; laboratories T R 2-5.

400 Independent Study in Physics: Advanced Experimental Physics (U) 3 credits. Individual projects carried out in conjunction with the Phys 510 laboratory.

500 Informal Graduate Laboratory (G) 1 or 2 credits. M-F 2-5.

Summer study may enable you to plan an ideal fall schedule.



PSYCHOLOGY

- 101 Introduction to Psychology: The Frontiers of Psychological Inquiry (U,G)** 3 credits. M-F 12:30-1:45. L. Parker.
- 107 Emotion and Personal Growth (U,G)** 3 credits. M-F 12:30-1:45. G. Colvin.
- 124 Introduction to Psychology: Brain and Behavior—Normal and Abnormal (U,G)** 3 credits. M-F 11-12:15. K. Olsen.
- 128 Introduction to Psychology: Personality and Social Behavior (U,G)** 3 credits. M-F 9:30-10:45. R. Dworkin.
- 211 Psychology of Consciousness (U,G)** 3 credits. M-F 9:30-10:45. S. Goldfinger.
- 214 Introduction to Psychology: The Cognitive Approach (U,G)** 3 credits. Section 1, M-F 11-12:15; J. Carroll. Section 2, M-F 11-12:15; G. Nigro.
- 232 The Psychology of Women (U,G)** 3 credits. M-F 2-3:15. S. Graetz.
- 282 Psychology and the Law (U,G)** 3 credits. M-F 11-12:15. P. Burke.
- 286 (also Soc 286) Nonverbal Behavior and Communication (U,G)** 3 credits. M-F 12:30-1:45. L. Meltzer.
- 321 Psychological Development Through the Life Span (U,G)** 3 credits. M-F 12:30-1:45. D. Ricks.
- 345 Afro-American Perspectives in Experimental Psychology (U,G)** 3 credits. M-F 9:30-10:45. M. Haltom.
- 381 Social Psychology (U,G)** 3 credits. M-F 12:30-1:45. D. Crawley.
- 402 Current Research on Psychopathology (U,G)** 4 credits. M-F 12:30-1:45. R. Dworkin.
- 440 The Psychology of Sleep and Dreaming (U,G)** 4 credits. M-F 11-12:15. R. Jones.
- 469 Psychotherapy: Its Nature and Influence (U,G)** 3 credits. M-F 9:30-10:45. Additional hours to be arranged. R. Mack, R. Jones, D. Ricks.

ROMANCE STUDIES

- 222 French Civilization (U,G)** 3 credits. M-F 9:30-10:45. J. Béreaud.

RUSSIAN LITERATURE

- 332 A History of Russian Theater (U,G)** 3 credits. M-F 9:30-10:45. N. Perlina.
- 366 Russian Short Fiction: From Pushkin to Solzhenitsyn (U,G)** 3 credits. M-F 12:30-1:45. C. Emerson.

SOCIOLOGY

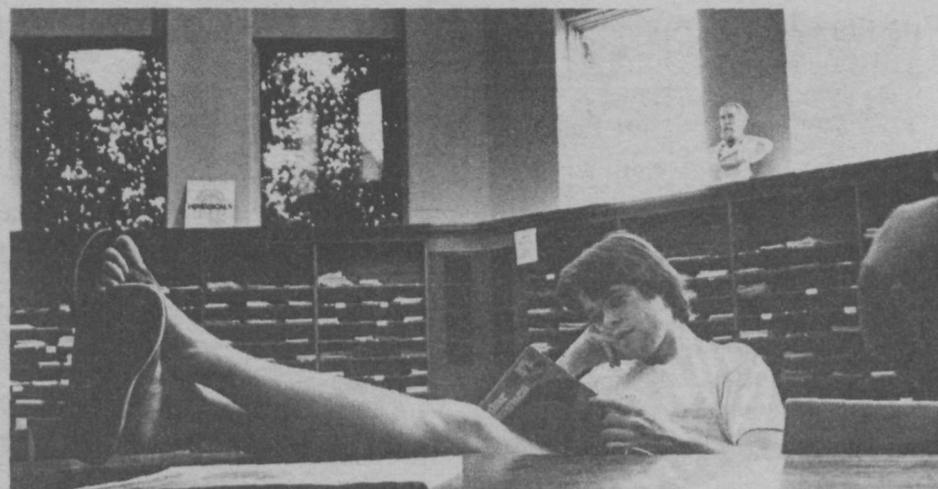
- 101 Introduction to Sociology (U)** 3 credits. M-F 9:30-10:45. J. Tamney.
- 243 Family (U)** 3 credits (4-credit option available). M-F 12:30-1:45. D. Demo.
- 252 Public Opinion and Society: Information and Personal Knowledge (U)** 3 credits (4-credit option available). M-F 11-12:15. J. McAdams.
- 253 Environment and Society (U)** 3 credits. M-F 11-12:15. L. Lemkow.
- 254 The Sociology of Religion (U)** 3 credits. M-F 12:30-1:45. D. Pohl.
- 286 (also Psych 286) Nonverbal Behavior and Communication (U,G)** 3 credits. M-F 12:30-1:45. L. Meltzer.
- 325 Evaluating Statistical Evidence (U)** 3 credits (4-credit option available). M-F 9:30-10:45. R. Startup.
- 357 Medical Sociology (U)** 3 credits (4 credit option available). M-F 2-3:15. J. Cannon.

THEATRE ARTS

- 125 Writing for the Theatre (U)** 3 credits. M-F 9:30-10:45. D. Rosengarten.
- 170 Writing and Music: The Theatre of Gilbert and Sullivan (U)** 3 credits. M-F 11-12:15. S. Gilmer.
- 200 Introduction to Dance (U,G)** 3 credits. M-F 12:30-1:45, plus two composition classes T R 2-3:15. J. Desmond.
- 240 Introduction to the Theatre (U,G)** 3 credits. M-F 11-12:15. D. Rosengarten.
- 287 Summer Acting Workshop (U,G)** 3 credits. Section 1, M-F 9:30-10:45; S. Cole. Section 2, M-F 11-12:15; R. Shank. Section 3, M-F 11-12:15; A. Van Dyke.
- 304 (also Phys Ed 134) Intermediate Classical Ballet Technique (U,G)** 1 credit. July 20-August 11. M-F 11-12:30. P. Saul.
- 377 Fundamentals of 16-mm Filmmaking (U,G)** 4 credits. T R 12:30-3:30. M. Rivchin.
- 348 Playwriting (U,G)** 4 credits. M-F 10:45-12:15. P. Vogel.

VETERINARY MEDICINE

- 638 The Microscope and Its Use (U,G)** 3 credits. M T W 12:30-3:30. R. F. Smith.



Eight-Week Session

June 15-August 11

CHEMISTRY

- 251 Introduction to Experimental Organic Chemistry (U)** 2 credits. June 15-August 11. Laboratories T R 1:25-4:25; laboratory-lectures M W 10-10:50.
- 251 Introduction to Experimental Organic Chemistry (U)** 2 credits. June 15-July 13. Laboratories M T W R 1:25-4:25, and F 8-11 at the discretion of the instructor. Laboratory-lectures M-F 11-12.
- 252 Introduction to Experimental Organic Chemistry (U)** 2 credits. July 14-August 11.
- 253 Elementary Organic Chemistry (U)** 4 credits. June 15-August 11. Lectures M T W R 8-9:50.

ENGINEERING

CHEMICAL ENGINEERING

- 110 Mass and Energy Balances (U,G)** 3 credits. Self-paced audiovisual instruction. R. G. Thorpe.

MATHEMATICS

- 192 Calculus (U)** 4 credits. M-F 8-8:50.
- 213 Calculus (U,G)** 4 credits. M-F 11-11:50.
- 294 Engineering Mathematics (U)** 4 credits. M-F 8-8:50.
- 421 Applicable Mathematics (U)** 4 credits. M-F 11-12:15.
- 422 Applicable Mathematics (U)** 4 credits. M-F 11-11:50.

PHYSICS

- 101 General Physics (U)** 4 credits. 4 weeks, June 15-July 13, or eight weeks, June 15-August 11. Audiotutorial, self-paced study and laboratory work. One group meeting on June 15, 9:30-10:45.
- 102 General Physics (U)** 4 credits. July 14-August 11 or June 15-August 11.
- 500 Informal Graduate Laboratory (G)** 1 or 2 credits.
- 510 Advanced Experimental Physics (G)** 3 credits. M-F 2-5. D. Hartill and staff.

Special Programs

The following special programs of the Summer Session are often scheduled for periods not consistent with the regular session offerings. Tuition rates, application procedures, registration processes, and so forth, also may vary. For special programs offering academic credit, the courses are listed where known. The person or department to contact for information and applications is indicated for each program.

Until March 1, the Summer Session office address will be 105 Day Hall. After that date, inquiries should be directed to B12 Ives Hall.

ADVANCED PLACEMENT PROGRAM FOR SECONDARY SCHOOL JUNIORS

June 27-August 11
Contact: Director, Advanced Placement Program, Summer Session, B12 Ives Hall.

AEROSPACE STUDIES (AFROTC)

June 3-August 11
Contact: Department of Aerospace Studies, 113 Barton Hall.

KEYS TO AGRICULTURAL DEVELOPMENT AT THE LOCAL LEVEL

August 2-14
Contact: L. W. Zuidema, 252 Roberts Hall.

IA 345 Informal Study (G) 2 credits

AGRICULTURAL AND OCCUPATIONAL EDUCATION

July 6-August 7
Contact: R. Tenney, 202 Stone Hall.

ONE-WEEK COURSES JULY 6-10

Educ 430 Special Problems in Agricultural Education: Advising the FFA (U,G) 1 credit. M-F 9-12, M T W R 1:30-4:30. R. W. Tenney.

Flor 436 Arboriculture Practices (U,G) 1 credit. M-F 8-12 and 1-5. H. D. P. Ryan.

Ag En 432 Energy Conservation in Greenhouse Management (U,G) 1 credit. M-F 8:30-11:30, M T W R 2-5. L. D. Albright.

Ag En 402 Energy Conservation Practices in Agriculture (U,G) 1 credit. M-F 8:30-11:30, M T W R 1:30-4:30. R. K. Koelsch.

THREE-WEEK COURSES
JULY 13-31

- Ag En 499 Small Gasoline Engine Maintenance and Repair (U,G)** 2 credits. M-F 10-11:50, M W F 1-4. F. G. Lechner.
- Ag En 424 Soil and Water Management (U,G)** 2 credits. M-F 8-9:50, T R 1-4. R. D. Black.
- Educ 730 Seminar in Agricultural and Occupational Education: Supervised Occupational Experience Programs (U,G)** 2 credits. M-F 10-11:50. Staff.
- Educ 534 Adult Education Program: Organization and Direction (U,G)** 2 credits. M-F 8-9:50. H. R. Cushman.
- R Soc 417 The United States Farm Family: Planning and Accomodation (U,G)** 2 credits. M W F 1-4:30. G. P. Colman.

ONE-WEEK COURSES
AUGUST 3-7

- An Sc 497 Horse Husbandry and Management (U,G)** 1 credit. M-F 8:30-11:30, M T W R 1-4. S. W. Sabin.
- Flor 526 Interior Plantscaping (U,G)** 1 credit. M-F 9-12, M T W R 2-5. C. C. Fischer and R. T. Fox.
- Veg 488 Vegetable Crops Production (U,G)** 1 credit. M-F 9-12; M T W R 2-5. L. D. Topoleski.

JULY 6-AUGUST 7

- Educ 500 Informal Study in Education (U,G)** Credit, hours, and dates to be individually arranged. Staff.
- Educ 600 Internship in Education (U,G)** Credit, hours, and dates to be arranged. Staff.
- Educ 800 Master's-Level Thesis Research (G)** Credit, hours, and dates to be individually arranged. Staff.
- Educ 900 Doctoral-Level Thesis Research (G)** Credit, hours, and dates to be individually arranged. Staff.

ARCHAEOLOGY FIELD SCHOOL IN ITHACA

- June 22-August 14
Contact: Director, Archaeology Field School in Ithaca, B12 Ives Hall.
- Arkeo 314 Archaeology Field School in Ithaca (U,G)** 8 credits. M-F 7 a.m.-4 p.m. D. M. Jones.

MEASURED DRAWING

TRAINING SESSION IN ROME,
JUNE 1-27

- Contact: Measured Drawing, B12 Ives Hall.
- Arch 485 Measured Drawing in Rome (U,G)** 6 credits. W. W. Cummer.

INTRODUCTION TO ARCHITECTURE PROGRAM

- June 27-August 11
Contact: Director, Introduction Architecture Program, B12 Ives Hall.

SUMMER ARCHITECTURE DESIGN PROGRAM

- June 1-July 27
Contact: Director of Summer Programs, 143 East Sibley Hall.

ARNOT FOREST SUMMER PROGRAM

Contact: Arnot Forest, B12 Ives Hall.

JUNE 1-19

- Ntres 330 Ecological Integration (U,G)** 4 credits. A. N. Moen.
- Arkeo 315 Settlement in the Arnot Forest: An Archaeological Approach (U,G)** 4 credits. R. Sternberg.

JUNE 1-5

- Ntres 311 Stem Growth of Forest Trees (U,G)** 1 credit. R. R. Morrow.
- Ntres 321 Field Ornithology (U,G)** 1 credit. C. Smith and D. McCrimmon.

JUNE 8-12

- Ntres 312 Responses of Forest Trees to Their Environment (U,G)** 1 credit. J. P. Lassoie.
- Ntres 322 Small Mammal Field Biology (U,G)** 1 credit. R. Howard and D. McCrimmon.

- Ntres 350 Recreational Considerations for Natural Resources Management (U,G)** 1 credit. C. Dawson.

ASIAN LANGUAGE PROGRAM

- June 10-August 11
Contact: Summer Asian Language Program, Morrill Hall.
- Chin 160 Introductory Intensive Chinese (Mandarin) (U,G)** 10 credits. M-F 8:30. J. McCoy and staff.
- Japan 160 Introductory Intensive Japanese (U,G)** 10 credits. M-F 8:30. E. Jorden and staff.
- Chin 201-202 Intermediate Chinese (U,G)** 4 credits each. J. McCoy and staff.

MODERN CELTIC LANGUAGES

- June 29-August 11
Contact: Director, Summer Celtic Institute, B12A Ives Hall.
- Gaelic (Irish) 131 Introduction to Modern Gaelic (Irish) I (U,G)** 3 credits. June 29-July 20. M-F 8-9:15, 11-12:15. E. O'Carrigain and staff.
- Gaelic (Irish) 132 Introduction to Modern Gaelic (Irish) II (U,G)** 3 credits. July 21-August 11. M-F 8-9:15, 11-12:15. E. O'Carrigain and staff.

- Welsh 131 Introduction to Modern Welsh I (U,G)** 3 credits. June 29-July 20. M-F 9:30-10:45, 2-3:15.

- Welsh 132 Introduction to Modern Welsh II (U,G)** 3 credits. July 21-August 11. M-F 9:30-10:45, 2-3:15.

COMMUNICATION PLANNING AND STRATEGY

- July 26-August 14
Contact: R. D. Colle, Communication Arts Graduate Center, 640 Stewart Avenue.
- C Art 680 Communication Planning and Strategy (G)** 3 credits.

INTERACTIVE COMPUTER GRAPHICS AND COMPUTER-AIDED DESIGN

- Dates to be determined.
Contact: Computer Graphics, B12 Ives Hall.

COMPUTERS AND LOCAL GOVERNMENTS

- July 15-17
Contact: Program in Urban and Regional Studies, 209A West Sibley Hall.

CORNELL'S ADULT UNIVERSITY

July 5-August 8
Contact: G. M. McHugh, 626B Thurston Avenue.

SEMINARS

- Exploring the Middle Ages**, July 5-11 and July 19-25.
- The New American Empire: The Decade of the Eighties**, July 12-18 and July 26-August 1.
- The Siren of the Sea**, August 2-8.

ORNITHOLOGY FIELD SEMINARS

- All about Birds: Beginning Ornithology**, June 7-13.
- More about Birds: Intermediate Ornithology** June 14-20.

SPECIAL INTEREST COURSES

- July 5-11
Gourmet Cooking
Horse Care and Management
Mastering Art
Paleontology: The Record in the Rocks
Streamside Ecology
Wine Tasting
Writing to be Read

- July 12-18
Collecting Rare Books
International Home Cookery
Know Your Cat
Our Living World of Nature
Shakespeare
Psychiatry Update

- July 19-25
Dog Care and Management
Don't Let the State Take It! Estate Planning for Everyone
Flower Arranging Made Fun
Nature Photography
The Gorgeous Gorges of Ithaca
Terrorism: Its Roots and Consequences
Day Packing on the Finger Lakes Trail
Investment Strategy
Jewish Literature
Jogging for Your Health
Nutrition: Facts and Fantasies
"A Loaf of Bread, A Jug of Wine . . ."

- August 2-8
Chamber Music for String Ensembles
Great Grapes
The Home Greenhouse
International Cuisine
India: The Mystery of Its Society and Architecture
Special Ornithology: Wild Bird Rehabilitation
Medical Problems in the Office

WEEKLY YOUTH PROGRAM

July 5-August 8

COSEP PREFRESHMAN SUMMER PROGRAM

- June 27-August 11
Contact: Learning Skills Center, 375 Olin Hall.

SPECIAL PROGRAM IN EDUCATION

- Contact: Summer Study Coordinator, Department of Education, 100 Stone Hall.

SCHEDULED COURSES

- June 1-23
Educ 567 Administration of Higher Education (G) 3 credits. M T W R 10-12 and 2-4 p.m. R. I. Miller.

June 8-12

- Educ 744 Faculty Development: Improvement of College Teaching (G)** 2 credits. M-F 9-4:30. D. B. Gowin, J. P. Bail, D. Way.

July 6-10

- Educ 590 Special Topics in Education—Teaching Basic Skills in Home Economics (G)** 1 credit. M-F 9-12, 1:15-3:15. M. M. Carmichael and P. J. Gray.

INDIVIDUALIZED STUDY IN EDUCATION

- Educ 400 Field Experience (U)** 1 to 4 credits, as arranged.
- Educ 497 Informal Study (U,G)** Credit and hours to be arranged.
- Educ 600 Internship in Education (G)** 2 to 6 credits, as arranged. Staff.
- Educ 800 Master's-Level Thesis Research (G)** Credit, hours, and dates to be individually arranged. Staff.
- Educ 900 Doctoral-Level Thesis Research (G)** Credit, hours, and dates to be individually arranged. Staff.

ENGINEERING COOPERATIVE PROGRAM

- June 1-August 28
Contact: Program Secretary, Engineering Cooperative Program, 105 Hollister Hall.

ENGLISH AS A SECOND LANGUAGE

- June 29-August 7
Contact: Director, English as a Second Language, B12 Ives Hall.
- Engl 101 English as a Second Language (U,G)** 6 credits. M-F 8. E. J. Beukenkamp.
- Engl 102 English as a Second Language (U,G)** 6 credits. M-F 8. E. J. Beukenkamp.

EXECUTIVE DEVELOPMENT PROGRAM

- June 15-July 17
Contact: J. Thomas, Malott Hall.

FRESHMAN SUMMER-START PROGRAM

- June 29-August 11
Contact: L. P. Williams, B12 Ives Hall.
- Hist 141 Man and His Values in the Western Tradition (U)** 4 credits. M-F 9:30-10:45. L. P. Williams.

HEALTH EXECUTIVES DEVELOPMENT PROGRAM

- June 15-25
Contact: R. Brown, Graduate School of Business and Public Administration, Malott Hall.

SUMMER INSTITUTE ON HISTORIC PRESERVATION PLANNING

- June 14-19
Contact: Charles Uhl, Program in Urban and Regional Studies, 209A West Sibley Hall.

- Arch 545 Design and Conservation (U,G)** 1 credit.

THE CENTER FOR PROFESSIONAL DEVELOPMENT IN HOTEL AND RESTAURANT ADMINISTRATION

- June 15-July 31
Contact: College Registrar, School of Hotel Administration, 137 Statler Hall.

HUMAN ECOLOGY COURSES

HUMAN SERVICE STUDIES

Contact: J. Pedersen, Martha Van Rensselaer Hall.
HSS 607 Professional Improvement I (U,G)

Section 1, Teaching Human Sexuality 2 credits.
June 29-July 10. M-F 8:30-11:30; 1:30-5. A. Eggleston.

Section 2, Expanding Your Teaching Repertoire 2 credits.
June 29-July 10. M-F 9-12; 1-4. A. McLennan.

Section 3, Educating for Parenting 2 credits. July 13-July 24. M-F 9-12; 1-4. J. Pillsbury.

Section 4, Teaching for Aging 1 credit. July 13-July 17. M-F 9-12; 1-4. H. Burris.

Section 5, Working with Advisory Boards and Committees 1 credit. July 20-July 24. M-F 9-12, 1-4.

HSS 637 Social Welfare Policy (U,G) 3 credits. June 2-July 16. T R 7:30-10:30 p.m. R. Cna'an

HSS 670 Social-Work Methods and Practice (G) 9 credits. June 22-August 14.

HSS 674 Program Development in Social Services (U,G) 3 credits. June 2-July 16. M-W 7:30-10:30 p.m.

FIELD STUDY OFFICE

June 12-August 11
Contact: T. Stanton, 170 Martha Van Rensselaer.

Inter 406 Sponsored Field Learning and Internships 8 or 10 credits.

Inter 409 The Ecology of Rural Organizations 8 credits.

NUTRITIONAL SCIENCE

June 29-August 11
Contact: N. J. Peckenpaugh, 428 Martha Van Rensselaer Hall.
NS 402 Supervised Fieldwork 2 to 6 credits.

NS 607 Nutrition Update (G) 2 credits plus 30 hours continuing education credit from the American Dietetic Association. July 6-17. M-F 9-12, 1-4. M. A. Morrison and staff.

JAPANESE TEACHER TRAINING WORKSHOP

July 6-31
Contact: E. H. Jordan, Morrill Hall.
Japan 403 Teaching of Japanese as a Foreign Language (G) 4 credits. 4 hours a day five days a week, for four weeks. Hours to be arranged. E. Jordan and staff.

CORNELL LAW SCHOOL PRELAW PROGRAM

June 8-July 21
Contact: J. Death, Myron Taylor Hall.
Law 495 The Adversarial Process (U) 3 credits. M-F 9-10:15. E. F. Roberts.

Law 497 Family Law (U) 3 credits. M-F 10:45-12. W. T. Dean.

Law 499 Criminal Law (U) 3 credits. M-F 10:45-12. N. E. Roth.

1981 SUMMER LINGUISTIC INSTITUTES

FIRST CORNELL UNIVERSITY SUMMER INSTITUTE IN LINGUISTICS FOR BILINGUAL EDUCATION

June 29-August 7
Contact: D. F. Solá, 190 Uris Hall.
700 (Section 30) Introduction to Linguistics for Bilingual Education 3 credits. L. D. King.

403 Second-Language Acquisition 3 credits. J. S. Noblitt.

700 (Section 31) Linguistic Aspects of Reading in Bilingual Education 3 credits. R. Weber.

700 (Section 20) Languages in Contact 3 credits S. Poplack.

700 (Section 32) Minority Language Materials Preparation: Mohawk 3 credits. D. Macedo.

302 Multilingual Societies and Cultural Policy 3 credits. D. F. Solá.

700 (Section 34) Workshop on FLEX Training Materials 1 credit. D. F. Solá.

700 (Section 35) Assessing Language Proficiency in Bilingual Education: Elementary Grades 3 credits. V. Streiff.

700 (Section 36) Assessing Language Proficiency in Bilingual Education: Secondary Grades and Adults 3 credits. V. Streiff.

THE SIXTH INTER-AMERICAN LINGUISTIC INSTITUTE

June 29-August 7
Contact: D. F. Solá, 190 Uris Hall.

MARINE SCIENCE PROGRAMS

SHOALS MARINE LABORATORY, APPLIEDORE ISLAND, ISLES OF SHOALS, MAINE

Contact: Shoals Marine Laboratory, G14 Stimson Hall.

Ntres 306 Coastal and Oceanic Law and Policy (U,G) 1 credit. July 27-August 3.

Bio S 312 Anatomy and Behavior of the Gull (U,G) 2 credits. May 29-June 12.

Bio S 363 Field Marine Science for Teachers (U,G) 1 credit. July 6-16.

Bio S 364 Field Marine Science (U,G) 6 credits. Section 1, June 1-29; section 2, August 3-31.

Bio S 365 Underwater Research (U,G) 2 credits. August 17-31.

Bio S 409 Research in Biology (U,G) Credit to be arranged.

Bio S 413 Adaptation in Marine Organisms (U,G) 4 credits. July 6-27.

Bio S 441 Field Phycology (U,G) 4 credits. July 6-27. P. Sze.

Bio S 467 Chemical Oceanography in the Field (U,G) 4 credits. July 6-27. T. Loder.

Bio S 473 Marine Vertebrates (U,G) 4 credits. June 8-29.

Bio S 482 Invertebrate Embryology (U,G) 4 credits. June 8-29. D. Burgess.

Ntres 417 Wetland Resources (U,G) 1 credit. July 27-August 3.

CEE E Introduction to Marine Pollution and Its Control (U,G) 2 credits. August 3-17.

SEA SEMESTER

Bio S 366 SEA Introduction to Marine Science 3 credits.

Bio S 367 SEA Man and the Sea 2 credits.

Bio S 368 SEA Introduction to Nautical Science 3 credits.

Bio S 369 SEA Marine Science Laboratory 4 credits.

Bio S 370 SEA Nautical Science Laboratory 4 credits.

MILITARY SCIENCE (AROTC)

June 1-19 or July 27-August 14
Contact: Major R. Slinkard, 101 Barton Hall.

MS 299 Army ROTC Basic Course (U,G) Noncredit.

LANDSCAPE PHOTOGRAPHY IN ENGLAND AND EUROPE

July 5-August 12
Contact: S. Bowman, Director, Landscape in England Program, B12 Ives Hall.
Art 264 Landscape Photography in England and Europe (U,G) 8 credits.

NATIVE AMERICAN STUDIES INSTITUTE

Contact: Coordinator, Native American Studies Institute, B12 Ives Hall.
Anthr 317 Cultural History of the Iroquois (U,G) 4 credits. M-F 2-3:15. S. Saraydar.

PROGRESSIVE PLANNING SUMMER PROGRAM

Contact: S. Kelman, Department of City and Regional Planning, 106 West Sibley Hall

THREE-WEEK COURSES JUNE 8-26

CRP 642 Critical Theory and Planning Theory (U,G) 4 credits. M-F 9:30-12. J. Forester.

CRP 719 (Section 1) Black Development Strategies Since 1945 (U,G) 4 credits. M-F 9:30-12. M. Marable.

CRP 719 (Section 2) Community Economic Development (U,G) 4 credits. M-F 9:30-12. I. Brous.
CRP 719 (Section 3) The Urban Fiscal Crisis (U,G) 4 credits. M-F 9:30-12. W. Tabb.

CRP 719 (Section 4) Women and Community Development (U,G) 4 credits. M-F 9:30-12. J. Leavitt.

CRP 719 (Section 5) Urbanization and Regional Development in the Third World (U,G) 4 credit. M-F 9:30-12. D. Barkin.

CRP 719 (Section 6) The Politics of Environmental Protection (U,G) 4 credits. M-F 9:30-12. R. Booth.

CRP 784 Health Planning: Issues and Prospects (U,G) 4 credits. M-F 9:30-12. S. Kelman.

THREE-WEEK COURSES JUNE 29-JULY 17

CRP 709 Sexual Politics and American Urban Life (U,G) 4 credits. M-F 9:30-12. S. Elbert.

CRP 759 (Section 1) Planning Urban Inner-City Villages (U,G) 4 credits. M-F 9:30-12. Y. Perry.

CRP 759 (Section 2) Neighborhood Housing Strategies (U,G) 4 credits. M-F 9:30-12. C. Hartman.

CRP 759 (Section 3) State, Social Structure, and Economic Development in the Third World (U,G) 4 credits. M-F 9:30-12. J. Petras.

SIX-WEEK COURSES JUNE 29-AUGUST 7

CRP 729 Quantitative Techniques for Planners (U,G) 4 credits. M-F 4:30-5:45. L. Lacey.

CRP 739 National and Regional Economic Planning in the United States (U,G) 4 credits. M-F 11-12:15. A. Watkins.

CRP 749 Comparative Social Policy Planning (U,G) 4 credits. M-F 9:30-10:45. G. Freeman.

DIRECTED STUDY

CRP 849 Directed Study and Research Variable credit by arrangement with summer staff members.

INSTITUTES

New Processes of Organizational and Community Development July 6-10.

Communication Tools for the Planner and Architect July 13-17.

WORKSHOP IN PSYCHOLOGICAL TESTING

May 25-June 19
Contact: Psychological Testing Workshop, B12 Ives Hall.
Psych 543 Psychological Testing (G) 4 credits. M-F 10-12:30. W. White.

REMOTE SENSING FOR DECISION MAKERS

June 9-11
Contact: Remote Sensing Program, B12 Ives Hall.

SMALL-TOWN REVITALIZATION WORKSHOP

June 22-24
Contact: Small Town Revitalization Workshop, 209A West Sibley Hall.

SUMMER SEMINAR ON THE SUTRAS

June 8-26
Contact: Summer Seminar on the Sutras, B12 Ives Hall.
Asian 353 (U, G) 4 credits. M-F 8:30-10, 10:30-12, 1-2:30.

VIDEO COMMUNICATION

June 8-26, July 6-24
Contact: S. A. White, Communication Arts Graduate Center, 640 Stewart Avenue.

C Art 460 Video Communication (G) June 8-26. 1 credit a module.

C Art 461 Advanced Video Communication (G) July 6-24. 1 credit a module.

Module I, Integrating Media: Theory and Planning M T W R 11-12:30.

Module II, The VTR Portapak June 8, 10, 15, 17; M W 1:30-4:30; July 6, 8, 13, 15; M W 1:30-4:30.

Module III, Photography for Video Input T R 3-5; laboratory R 7-9.

Module IV, Super-8mm Filmmaking T 3-5, F 10-12.

Module V, Script and Copy Writing M W 9-11.

Module VI, Studio Video Production T R 9-11.

Module VII, Video Production and Electronic Editing June 19 and 22-25 and July 17 and 20-23: 1:30-4:30.

VIOLA DA GAMBA PROGRAM

July 21-30.
Contact: J. Hsu, 326 Lincoln Hall.



tees depend on student input, input has to be encouraged by any means possible.

Student Interest Committees may be set up to parallel existing University Assembly committees. The University Assembly committees are set up to create policy consistent with a consensus of employees, faculty, and students. The parallel Student Interest Committee under the SA would be oriented more towards gathering student opinion on the same subject.

Finance Committees. The Finance Committees will have a direct link to the representative student government, as a member of the SA will serve on each of the 3 finance committees. A further link is provided by the appeal process. Appeals of Finance Committee decisions now go directly to the SA, instead of going to a separate committee, as in the past.

Dining Services. This committee serves the same functions as the Campus Council committee on Dining Services.

Residence Life. This committee serves the

same functions as the Campus Council committee on Residence Life, with additional responsibilities to investigate issues relating to student off-campus life, including fraternities, sororities and cooperatives.

Unions and Activities Board of Governors. This will serve the same purpose as the existing Board of Governors. The major changes are 1) a voting member of the SA will be a member of the board, 2) all policies of the groups under the Board of Governors are still subject to the direct jurisdiction of the SA.

Student Life. Besides setting policy for the Office of the Dean of Students and OARC, this committee should also gather student input and develop policy relating to general aspects of student life.

Student Grievance Committee. This committee will help students deal with problems they may encounter in the University grievance system. It is set up to be more accessible to students, and in some cases help guide students

through the existing grievance procedures. The Student Ombudsman should not be a substitute for the University Ombudsman. We recommend that the Student Ombudsman act more as a student representative in the grievance procedures.

Communications. This committee will be responsible for all publicity for SA meetings, hearings and committee meetings. The "membership" of the committee will consist of anyone who is interested in putting up posters, conducting polls, etc. We recommend that the Committee publish a regular newsletter in the Cornell Chronicle describing SA activities.

Student Priorities. This committee will hold hearings and discussions to gather input about what is important to students. On the basis of the input, the committee can act as a student lobby to the SA or Campus Life departments.

Article VII, Section 8. By having members of the SA serve on the Staffing Committee, students have a representative voice in committee assign-

ments. We recommend that at least one of the two other students on the Staffing Committee be a freshman. This adds a non-biased voice in committee assignments.

By consulting with members of the individual committees, the Staffing Committee can get input about students who have shown a particular interest in a committee.

There is no need for Student Interest Committees to have a set selection procedure or a fixed membership, as they are set up to allow maximum student input and involvement. We recommend that the SA should not fix membership unless an open system seriously impairs the operation of the committee. If criteria are set for membership, we recommend that membership be based on attendance, such as requiring students to attend a certain number of committee meetings, or three consecutive meetings, to get an official vote.

Article VII, Section 9. Due to the nature of SA meetings, a voting member of the Assembly cannot be excused in the case of absence, regardless of cause.

Charter for the Employee Assembly

Preamble

In response to a vote of the Cornell community and as requested by the President, this document sets down rules and regulations requisite for establishing an Employee Assembly, to be peopled by employees and to be concerned with those matters directly affecting employees of Cornell University. Furthermore, this body will interact with and discuss issues of common interest with the Student Assembly and the Faculty Council of Representatives.

The purpose of the Employee Assembly is to ensure a direct focus for the continued involvement of exempt and non-exempt staff members in the governance of non-academic affairs and in the life of the University. The Employee Assembly will bring about a higher visibility for employees as community members, more equal participation with faculty and students in the policy-making process, and an increased sense of community among all constituencies through shared responsibilities.

The Employee Assembly will actively seek to involve all segments of Cornell's diverse employee population in the Assembly's decision-making activities. Particular effort will be made to ensure that women and minority persons have equal access to Employee Assembly positions.

Establishment

Article 1: Pursuant to the authority delegated by the Board of Trustees, the President hereby establishes the Employee Assembly. Articles 1 through 9 of this document constitute the Charter of the Employee Assembly.

Authority and Responsibilities

Article 2: The Employee Assembly shall explore opportunities to enhance the role, function and contribution of employees to the well-being of the University. The Employee Assembly shall have the authority to:

2.1. examine the University's personnel policies and make recommendations to the appropriate bodies and University administrators concerning these matters.

2.2. examine other University policies affecting the employment environment at Cornell and make recommendations to the appropriate bodies and University administrators concerning such matters. These include, but are not limited to, education/training opportunities, dining, health, transportation services, recreation, other specific needs as identified, and communication among employees.

2.3. provide a mechanism for the informal exchange of information and views between the Employee Assembly and University administrators.

2.4. establish such standing and *ad hoc* committees as are appropriate to the performance of its functions.

2.5. select employee members for standing or *ad hoc* committees of the University Assembly.

2.6. conduct public hearings and forums concerning topics of current employee interest and determine in other appropriate ways employee needs and opinions.

2.7. exercise control over the internal operations and maintenance of the Employee Assembly, including provision for the creation of by-laws, procedures and amendments.

2.8. interface with the University Assembly in the following ways:

a) send five members to the University Assembly as voting delegates.

b) make recommendations.

c) deliver an annual report of its activities.

2.9. interface with the Student Assembly and Faculty Council of Representatives by sending one member to each group as a non-voting delegate.

2.10. Nothing contained in Article 2 shall be construed as authorizing the Employee Assembly to represent any interested party (including either Cornell University or its employees) in matters concerning grievances, labor disputes, wages, rates of pay, hours of employment, or conditions of work, nor may the Employee Assembly investigate the merits of individual grievances.

Membership

Article 3: The Employee Assembly shall consist of thirteen (13) employees, of whom six (6) shall be from Endowed units, six (6) from Statutory units, and one from the Geneva Experiment Station or at-large.

Within the Endowed and Statutory units, two (2) delegates shall be exempt, three (3) non-exempt, and one (1) at-large. The Employee Assembly may allocate two at-large seats to a constituent group or groups of employees which it determines to be underrepresented. Should the Assembly determine to allocate a seat or seats to specified groups of employees, such allocation shall be in accordance with procedures promulgated by the Employee Assembly and contained in its procedures and/or bylaws.

3.1. The following shall be members of the Employee Assembly without vote: The Employee Trustees, a representative of University Personnel Services appointed by the President to serve as a resource person upon the request of the Employee Assembly.

3.2. Five members of the Employee Assembly shall be selected by the Employee Assembly to sit on the University Assembly.

3.3. Candidates for seats will run within their designated area (e.g. Endowed, Statutory, Geneva or At-Large), with all employees voting for all candidates. Tabulations of the results of voting shall be carried out by the Hare System.

3.4. Membership on the Employee Assembly shall be for two years. Terms shall be staggered so that there is an election of one-half of the members annually. Initially one-half of the persons elected shall serve one and two year terms respectively.

Officers

Article 4: The officers of the Employee

Assembly shall be the Chairperson, Vice-Chairperson, Secretary, and Parliamentarian, elected from among the Employee Assembly members. Officers may not serve more than two consecutive terms.

Officers may be removed upon two-thirds (2/3) vote of the seated members of the Employee Assembly. Immediately thereafter a new officer shall be elected from members of the Employee Assembly for the balance of the term of office.

4.1. The Chairperson shall have full responsibility for the smooth and effective operation and maintenance of the Employee Assembly. That person shall preside over meetings of the Employee Assembly and delegate responsibilities to ensure the accomplishment of the duties of the office and the goals set forth in the Employee Assembly Charter and Bylaws.

4.2. The Vice-Chairperson shall assist the Chairperson. Other responsibilities shall include, but are not limited to:

a) transmitting reports of actions and recommendations of the Employee Assembly and its committees, as the Employee Assembly shall direct.

b) reporting periodically on the disposition or current status of Employee Assembly actions and recommendations.

c) overseeing the exchange of information and opinions between the Employee Assembly and the community at-large as Chairperson of the Communications Committee of the Employee Assembly.

4.3. The Secretary shall see that the minutes of all meetings are kept and distributed to members within one week after the meeting. This person shall also notify members of special meetings and of important matters proposed for action at any meeting, make public the reports and actions of the Employee Assembly in cooperation with the Communications Committee, and perform other responsibilities as designated.

Prior to any policy review that the Employee Assembly may initiate, the Secretary shall notify those individuals and bodies affected. Such notification shall include the name of the chairperson of the committee authorized by the Employee Assembly to conduct the review, the charge to the committee, and the time period for which the committee is authorized to conduct its review. Records of notifications shall be maintained by the Secretary and shall be accessible to all members of the University.

4.4. The Parliamentarian shall see that meetings follow procedures found in Robert's Rules of Order and within the Charter and Bylaws of the Employee Assembly.

Elections/Vacancies

Article 5: Elections shall be conducted by a committee designated by the University Assembly with the assistance of the Employee Assembly Nominations and Elections Committee.

5.1. The Nominations and Elections Committee of the Employee Assembly will solicit from the community and from current committee members, names of individuals interested in serving on the Em-

ployee Assembly. Persons may nominate themselves or, with their consent, they may be nominated by other individuals, community groups, or organizations.

5.2. If any position is not filled in a given category, the position shall be filled by the candidate receiving the next highest number of votes from that category. If no other candidate is available in that category, the position will be filled by the candidate receiving the next highest number of votes in a category to be specified in the Bylaws.

5.3. Prior to the spring elections, the Employee Assembly shall determine which seats are vacant and shall forward this list to the University Assembly Elections Committee. A vacancy in the Employee Assembly occurs when (a) a seat is unoccupied at the beginning of a term of office, (b) an incumbent resigns, or, (c) the incumbent of a seat no longer qualifies as a member of the Cornell employee constituency.

5.4. An Assembly member's change of status within the employee constituency (e.g. exempt to non-exempt) shall not disqualify an incumbent from completing his or her term.

5.5. If a vacancy occurs, the Chairperson shall direct the Nominations and Elections Committee of the Employee Assembly to advertise the vacancy and otherwise solicit applicants. The Employee Assembly will then appoint a member to fill the vacancy from a slate of applicants compiled by the Nominations and Elections Committee. The selection will be made as rapidly as possible.

5.6. A voting member of the Employee Assembly may not serve concurrently as University Trustee, or as a member of any of the University Assembly's standing committees and boards, except where specified in this Charter.

5.7. For the purposes of voting for and membership on the Employee Assembly, employees are any regular full-time or part-time staff members in the non-exempt (GR/NP), exempt (CP), and academic staff (CA) categories.

Procedures

Article 6: The procedures of the Employee Assembly shall be as follows:

6.1. At the first meeting of the academic year, the Employee Assembly shall adopt a schedule of meetings for the remainder of the year.

6.2. Regular meetings of the Employee Assembly are those adopted at the first meeting of the Employee Assembly.

6.3. The Chairperson may call special meetings to consider matters demanding immediate attention, or such meetings shall be called when requested by one fourth (1/4) of the seated members of the Employee Assembly.

6.4. A quorum shall consist of seven (7) of the seated members of the Employee Assembly.

6.5. If the Employee Assembly urgently needs to conduct business on short notice, or if a member of the Employee Assembly cannot attend a regular meeting for job-related reasons, absentee votes may be

cast by Assembly members by delivering a proxy in writing to another voting member.

6.6. Robert's Rules of Order (current edition) shall be the basis for determining procedures for debate and general conduct of business not covered in this document.

6.7. The Employee Assembly or any of its committees may go into executive session to discuss confidential matters if a majority of voting members present concur.

6.8. Speaking privileges are obtained by notifying the Chairperson of a desire to speak on a specific agenda item, at least twenty-four (24) hours prior to the meeting.

6.9. Open Discussion shall be an item on every agenda. It permits employees an opportunity to be recognized by the Chairperson and to make comments without prior arrangement.

6.10. Immediately after the completion of the spring elections, the Nominations and Elections Committee of the outgoing Employee Assembly shall solicit nominees for the positions of Chairperson, Vice-Chairperson, Secretary and Parliamentarian, to be chosen from among the elected members of the new Employee Assembly. The names of the nominees, along with a short vitae, shall be circulated to all members of the newly elected Employee Assembly not less than seven days before the spring organizational meeting. On June 1st, the outgoing Employee Assembly shall be officially replaced by the newly elected Employee Assembly. As soon as possible after June 1st, the newly elected Employee Assembly shall hold an organizational meeting to elect the above named four officers.

6.11. The agenda for the Employee Assembly shall be set by the Chairperson and be made public prior to Employee Assembly meetings.

6.12. The minutes of the Employee Assembly meetings and those of committees specified in Article 7 shall be sent to the Employee Assembly members and made available to all members of the University.

6.13. The Employee Assembly may establish additional procedural rules as necessary for the exercise of its authority, by an affirmative vote of two-thirds (2/3) of the seated members.

6.14. University administrators or decision-making bodies receiving recommendations from the Employee Assembly are requested to respond to the Employee Assembly Chairperson within ten (10) working days. The response shall acknowledge receipt of the Employee Assembly's

recommendations and indicate an anticipated course of action. The outcome of the recommendations shall be reported to the Employee Assembly.

6.15. The Employee Assembly shall present an annual report to the University Assembly and the President of Cornell University. It shall contain a summary of the Employee Assembly's work during the year. In addition, it shall describe any unresolved issues, as well as any matters expected to arise in the future. The report shall be available to all members of the University.

Committees

Article 7: In pursuance of its mandate to address not only personnel policy but a broad range of topics of interest to employees, the Employee Assembly may establish standing or ad hoc committees as appropriate. This charter hereby creates two standing committees of the Employee Assembly: the Nominations and Elections Committee of the Employee Assembly and the Communications Committee.

Committees may also be created by a call for volunteers or appointment by the Chairperson. Membership on Employee Assembly committees is open to all employees of the University.

7.1. The Nominations and Elections Committee of the Employee Assembly shall consist of three members of the Employee Assembly. These individuals may also serve on other committees of the Employee Assembly or University Assembly. The Committee shall facilitate in all appropriate ways the nomination and selection of employee members to both elective and appointive positions administered by the Employee Assembly. The Committee will make every effort to ensure the recruitment, selection and seating of a full cross-section of the Cornell employee population. This Committee shall:

7.1.1. assist the University Assembly elections committee in recruiting and encouraging employees to run in the general elections.

7.1.2. conduct an election within the Employee Assembly for five representatives to the University Assembly.

7.1.3. solicit names of Employee Assembly members for Chairperson, Vice-Chairperson, Secretary, and Parliamentarian of the Employee Assembly, and conduct the election as per 6.10.

7.1.4. select employee members for standing or ad hoc committees of the Employee Assembly as appropriate.

7.1.5. select employee representatives to ad hoc or standing committees of the University Assembly as requested. The Nominations and Elections Committee of the Employee Assembly shall solicit from the community names of individuals interested in serving on committees of the University Assembly. Persons may nominate themselves or, with their consent, they may be nominated by other individuals, community groups or organizations.

7.1.6. solicit from the employee community names of individuals to fill one at-large seat for the editorial board of the employee newsletter (presently NetWorking).

7.2. The Communications Committee of the Employee Assembly shall consist of two members of the Employee Assembly, one being the Vice-Chairperson, who will chair the Communications Committee. These individuals may also serve on other committees of the Employee Assembly or University Assembly.

The Communications Committee shall promote higher visibility for employees as community members, provide a sense of a unified employee body, and help create an increased sense of community among all members of the Cornell community. It is imperative that communications be an ongoing concern of the Employee Assembly. The members of the Communications Committee shall:

7.2.1. serve as full voting members of the editorial board of the employee newsletter (presently NetWorking).

7.2.2. provide regular reports of Employee Assembly activities and recommendations for publication in the employee newsletter.

7.2.3. explore and use all other appropriate media to advertise the activities of the Employee Assembly.

Protections

Article 8: The Employee Assembly and its committees shall respect and protect the rights of individuals.

8.1. When a subject under discussion or examination requires the use of confidential information, all reasonable efforts shall be made to safeguard the confidentiality of this information.

Amendment Process

Article 9: An affirmative vote of two-thirds (2/3) of the seated membership of the Employee Assembly shall be required to amend the Bylaws and Procedures of the Employee Assembly and those articles of the Charter not excluded in 9.1. The proposed amendment shall be submitted to the Employee Assembly in written form at least one meeting prior to a vote.

9.1. Articles of the Charter excluded from the amendment procedure set forth in Article 9 are those which appear under the headings Authority and Responsibilities, Membership, and Amendment Process. An amendment to any of these articles is governed by the procedure set forth in Article 9.2.

9.2. Amendment of the articles specified in 9.1 shall require approval by employee referendum, with a majority vote in the employee constituency and a minimum total vote of twenty per cent (20%), plus approval of the President. Before putting amendments into effect, it is expected that the President will report impending changes to the Board of Trustees.

9.2.1. An amendment to those articles specified in 9.1 may qualify to be presented as a referendum at the next following annual campus election by either of two pathways:

a) The Employee Assembly itself, by a two thirds (2/3) vote, may present an amendment.

b) Any member of the Cornell employee community may present an amendment by petition. In order to qualify for presentation at the next following referendum, the petition must be supported by signatures of a least five per cent (5%) of the total non-faculty employee constituency.

Definitions

For the purposes of this document only, these definitions apply.

University: Ithaca campus of Cornell University in Tompkins and Cortland Counties and the Geneva Experiment Station, and all students, faculty, and employees associated with them.

Employee: For the purposes of voting for and membership on the Employee Assembly, employees are any regular full-time or part-time staff members in the non-exempt (GR/NP), exempt (CP), and academic staff (CA) categories.

Seated Membership: The total voting membership of the Employee Assembly.

Comments on Employee Charter

DRAFTING COMMITTEE COMMENTS

The following is a discussion of areas of concern to the Charter Drafting Committee regarding matters in the Employee Assembly Charter.

Representation of the Geneva Experiment Station. A seat for a representative from the Geneva Experiment Station has been designated due to past participation in the governance system and an expressed interest in continuing the involvement. However, in the event a candidate does not come forward from the Station, at-large nominations from the Ithaca campus will be accepted. An early date for the filing of nominations from the Experiment Station should resolve any procedural problems. (Article 3)

Vacancies. In selecting a person to fill a vacant seat, first priority is the designation within the payroll classification system (e.g., exempt or non-exempt). The statutory/endowed representation is of second priority. For example, if a vacancy occurs in a non-exempt/endowed seat, that position should be filled by a person holding a non-exempt job in an endowed unit, often the runner-up in the previous election. If no replacement is found, a non-exempt candidate from the statutory units should be sought. Should there be no candidate available who meets these guidelines, an appointment should be considered.

At-large seats will be filled according to the guidelines established concerning under-represented groups. In this case, the selection criteria of first priority is the nature of the group that is underrepresented (e.g., Black, Hispanic, etc.). The representation of exempt/non-exempt or statutory/endowed units is of secondary consideration in this case.

Vacancies may be filled from the pool of candidates who were not seated in the general election, by solicitation of application, or by an

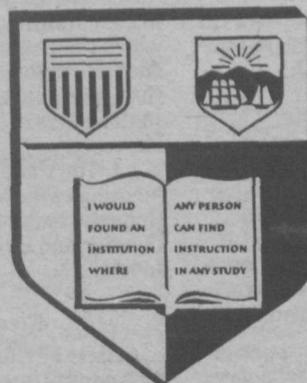
appointive process. (Section 5.2)

Absentee Vote. The Employee Assembly should establish guidelines for the proper use of the absentee vote, limiting the privilege to use on issues of urgency that have been thoroughly discussed. (Section 6.5)

Definition of Employee. For the purposes of voting for and membership on the Employee

Assembly, employees are any regular full-time or part-time staff members in the non-exempt (GR/NP), exempt (CP), and academic staff (CA) categories.

All employees, including those not covered by the above definition such as casual or temporary, are encouraged to participate in committees and other activities of the Employee Assembly.



Several issues beyond the scope of the charge to the Charter Drafting Committee were discussed during the meetings and hearings held by the group. Some thoughts are presented here for your consideration.

Candidacy. The electoral process is an exciting innovation and can result in a much improved visibility for the campus governance system, particularly for employees. In the past, the nominations and campaign process for the employee elected trustee seats has been handled with sensitivity. We feel it is important to minimize the formalities of the election process so as to encourage as many employees as possible to run for election. NetWorking should be a major resource in the process.

Sub-Assembly Interface. Communications and relationships among the three sub-assemblies of the University Assembly are essential to the effective operation of each of these groups individually and to the parent body. The mechanism for ensuring this interaction is not as important as the philosophy behind it. A cooperative spirit among the subassemblies should be cultivated so that potential conflicts can be identified and resolved early in the decision making process. To this end, we propose that Article 1, Section 3 of the Student Assembly charter be reviewed. It is clear that all three sub-groups have an interest in protecting their autonomy.

Employee Representation on the University Assembly. Employee representation in the campus governance system has improved greatly over the years. However, we feel it is time to consider the equality of representation among the students, faculty and employee communities. The Charter Drafting Committee of the Employee Assembly strongly recommends a change to numerical equality of representation on the University Assembly.



Pinchas Zukerman, recognized by audiences and critics as one of the great violin virtuosos of the century, will present an all Brahms violin and viola recital at 8:15 p.m. today in Bailey Hall. Tickets are on sale at the Lincoln Hall Ticket Office, 256-5144. Free bus service, beginning at 7:30 p.m. will be provided between parking lot B and Bailey Hall with a stop at the Dairy Bar.

Wednesday

Feb. 11, 7:30 p.m. Anabel Taylor One World Room. "America and World Community," an interdisciplinary course: "Natural Resources, Pollution, and World Community," Richard McNeil, Associate Professor, Natural Resources.

Feb. 11, 7:30 p.m. Goldwin Smith Kaufmann Auditorium. Teach-In on El Salvador, talk by Cindy Arenson, slide show and discussion. Sponsor: CUSLAR.

Thursday

Feb. 12, 7:30 p.m. Fuertes Room, Laboratory of Ornithology. Cayuga Bird Club Lecture: "Bird Song and the Library of Natural Sounds," Robert Beck.

Meetings

Every Thurs., 7:30 a.m. Anabel Taylor One World Room. Disarmament Study/Action Group breakfast. For more information contact Jack Lewis or Phil Bogdonoff, 256-4214. All welcome.

Every Thurs., 12:30 p.m. Anabel Taylor Forum. Alcoholics Anonymous.

Every Mon., 4:30 p.m. Anabel Taylor G-17. Committee on U.S. Latin American Relations.

Every Tues., 7:30 p.m. Anabel Taylor 314. Anthroposophy Study Group of CRESF will consider the topic: "Thinking Redeemed: Rudolf Steiner's 'Philosophy of Spiritual Activity.'" Everyone is welcome. For information call 272-3170, or see the secretary in Anabel Taylor Hall.

Fri. & Sat.

Feb. 6 & 7, 6:30 p.m. Upson Hall 111. Cornell Dungeons and Dragons Club meeting.

Every Sat., 12 noon-5 p.m. Straight Loft 2. Cornell Wargamers meeting.

Wednesday

Feb. 11, 4:30 p.m. Ives 110. Faculty Council of Representatives.

Friday

Feb. 13, 8 p.m. Bradfield-Emerson Seminar Room. The Agricultural Circle presents "1980 Census - the Counting of America," Peter Francese. Guest night.

Music

Recital of Lute Songs

A recital of lute songs will be presented in Barnes Hall by Jean Hakes, soprano, and Stanley Charkey, lute, at 4 p.m. Sunday, Feb. 8. This is the first of the many free public concerts and lectures which will be given in the spring semester under the auspices of the university music department.

The Sunday program will consist of music of the English Renaissance. Hakes will sing groups of songs by John Dowland, Michael Cavendish, Robert Jones, Alfonso Ferrabosco and Robert Johnson on themes of love and longing. Charkey will play two lute solos: "Allemande by Jones and Fortune my foe by Johnson.

Hakes, a professor of music at Brooklyn College, has been a guest artist at Cornell on numerous occasions. She served as a visiting professor of voice several years ago and has appeared in recitals, chamber music concerts and, most recently, as soloist with the University Orchestra in Bailey Hall last spring. She is a member of the noted Smithsonian Chamber Players and the New York Chamber Soloists.

Contemporary Music Festival

Four days of contemporary music events are scheduled Feb. 12-15. All of the programs will be presented in Barnes Hall and are open to the public free of charge.

The opening concert, at 8:15 p.m. Thursday, Feb. 12, will feature a Festival Orchestra of professional instrumentalists from the Ithaca area playing chamber music written by Cornell composers. The composers, who will conduct their own works, are David Conte, Garth Drozin, Thomas Duffy, Mark Laporta, Janice Macaulay, Mark Simon, Mark Taggart and Gregory Woodward. They are graduate composition students of Professors Karel Husa, Robert Palmer and Steven Stucky.

Guest artist Robert Miller will give a

recital of contemporary piano music at 8:15 p.m. Friday (Feb. 13). He will play compositions written during the past decade by American composers, including George Crumb's Makrokosmos II. His concert will be preceded by an informal lecture-demonstration at 2:30 p.m. in Barnes Hall.

The Emerson String Quartet will appear in concert in Barnes Hall at 8:15 p.m. Saturday. They won the Naumberg Award for Chamber Music in 1978. They will perform quartets by Bartok, Davidovsky and Schoenberg.

As the final concert of the series, the Musica Nova of the Eastman School of Music, will present a public program at 8:15 p.m. Sunday, Feb. 15. The ensemble is made up of Eastman graduate students and faculty. In addition to recent music by Rochberg, Berio and Ligeti, they will play works by Hashimura, Walter Mays and Steven Drew.

Part of the year-long 13th Festival of Contemporary Music at the university, these extra events are being made possible by a special grant from the Council of the Creative and Performing Arts.

Thursday

Feb. 5, 8:15 p.m. *Bailey Auditorium. Faculty Committee on Music Concert. Pinchas Zukerman, violin and viola. All Brahms program.

Sunday

Feb. 8, 4 p.m. Barnes Hall. Songs to the Lute: Jean Hakes, soprano, and Stanley Charkey, lute. Music of the English Renaissance.

Thursday

Feb. 12, 8:15 p.m. Barnes Hall. Council of the Creative and Performing Arts Concert: "Chamber Ensemble Concert." Works of Cornell student composers (Contemporary Music Festival).

Friday

Feb. 13, 8:15 p.m. Barnes Hall. Council of the Creative and Performing Arts Concert: Robert Miller, piano. Works of Biscardi, Krieger, Sessions, Perle, Crumb (Contemporary Music Festival).

Saturday

Feb. 14, 8:15 p.m. Barnes Hall. Council of the Creative and Performing Arts Concert: Emerson String Quartet. Works of Bartok, Davidovsky, Schoenberg (Contemporary Music Festival).

Sunday

Feb. 15, 8:15 p.m. Barnes Hall. Council of the Creative and Performing Arts Concert: Musica Nova Chamber Ensemble. Works of Ligeti, Berio, Rochberg, others (Contemporary Music Festival).

Religion

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 Fri., 5:30 p.m. Anabel Taylor Founders Room. Shabbat Services (Conservative).

Every Fri., 5:30 p.m. Anabel Taylor Chapel. Shabbat Services (Reform).

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

Every Sat., 9:45 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative).

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., 10:30 a.m. Straight Lofts 2 & 3. University Church of Christ. Worship Service and Bible Study. Students and faculty welcome. Call 272-6242 for

information. James E. Johnson, Jr., evangelist.

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.

Sunday

Feb. 8, 11 a.m. Sage Chapel. Fifth Annual Festival of Black Gospel: Samuel D. Proctor, Professor of Education, Rutgers University, New Brunswick, NJ; Pastor, Abyssinian Baptist Church, Harlem NYC.

Sunday

Feb. 15, 11 a.m. Sage Chapel. Bryant Rossiter, Director of Research for Eastman Kodak, Rochester, NY; Regional Representative of the Twelve Apostles of the Mormon Church.

Religious Meetings

Every Thurs., 7 p.m. Anabel Taylor Founders Room. Christian Science Organization Testimony meeting. All welcome.

Every Fri., 8 p.m. Anabel Taylor Edwards Room. Seventh-Day Adventist Bible Study and Fellowship. All welcome. Call 256-2073 or 272-3716 for information or rides.

Every Wed., 7:30 p.m. 106 Eastern Heights Drive. Baha'i fireside meeting. All welcome. For information or rides call 273-4240.

Every Mon., 4:30 p.m. Anabel Taylor 314. Baha'i Club meeting. All welcome.

Every Tues. & Thurs., 7 p.m. Highland House Apts. Apt. C-34. Let's TWIG. Biblical research teaching and fellowship. The Way of Cornell. Call 257-0149.

Seminars

Business and Public Administration/American Society for Public Administration: "The Role of a Presidential Advisor," Alfred Kahn, 4 p.m. Thursday, Feb. 5, 251 Malott Hall. **Center for the Study of American Political Economy:** "The Nanoeconomics of Surface Transportation Deregulation," Darius Gaskins, outgoing chairman, Interstate Commerce Commission, 3 p.m. Thursday, Feb. 5, 403 Malott Hall.

Biochemistry: "Fibrin Formation and Its Regulation," Birger Blombach, New York Blood Center and the Karolinska Institute, Stockholm, 4:30 p.m. Friday, Feb. 6, 204 Stocking Hall.

Biophysical-Bioorganic Chemistry: "Nuclear Magnetic Resonance Studies of Enzyme Mechanisms and Active-Site Structures," Mildred Cohn, University of Pennsylvania, 11:15 a.m. Thursday, Feb. 5, 200 Baker. Professor Cohn will also speak on Tuesday, Feb. 10, and Thursday, Feb. 12, same time, same place.

Boyce Thompson Institute: "Effects of Air Pollutants on Insect/Plant Relationships: Some Recent Studies," Patrick Hughes, 3:15 p.m. Wednesday, Feb. 11, Auditorium, Boyce Thompson Institute.

Classics Discussion Group: "3 Short Reports—New Research in the Parthenon, The Trees at Grevena, and The Byzantine Ship at Yassi Ada," Peter I. Kuniholm, 4 p.m. Friday, Feb. 6, 120 Goldwin Smith Hall.

Computer Services: "Introduction to Local Networks," Alison Brown, 4 p.m. Wednesday, Feb. 11, G-14 Uris Hall.

Entomology (Jugatae): "Oviposition Behavior in the Onion Maggot, Hylemya antiqua," Judy Hough, 4 p.m. Monday, Feb. 9, 100 Caldwell.

Food Science: "Dietary Vegetables as Modifiers of Carcinogens," Juanell Boyd, 4:30 p.m. Tuesday, Feb. 10, 204 Stocking Hall.

General Chemistry: "Mild Eximers. The Spectroscopy of Weakly Bound Organic Dimers," Donald H. Levy, University of Chicago, 4:40 p.m. Thursday, Feb. 12, 119 Baker Lab.

Materials Science and Engineering: "Electroslag Melting and Welding Technology," R. David Thomas, consultant, Welding Metallurgy, 4:30 p.m. Thursday, Feb. 5, 140 Bard Hall.

Materials Science and Engineering: "Ion Microscopy and Ion Microprobe

Analysis," G. H. Morrison, 4:30 p.m. Thursday, Feb. 12, 140 Rand Hall.

Microbiology: "Baculovirus Replication in Tissue Culture: Virus and Host Controls," Alan Wood, 4:30 p.m. Thursday, Feb. 12, 124 Stocking Hall.

Natural Resources: "Conservation and Management of Tube-nosed Sea Birds (Procellariiformes)," Thomas Frensh, visiting fellow, Cooperative Wildlife Unit, 4 p.m. Thursday, Feb. 5, 304 Fernow.

Organic/Organometallic Chemistry: "Electron-Rich Complexes of the Early Transition Metals," S. Wreford, Dupont 8:15 p.m. Monday, Feb. 9, 119 Baker Lab.

Ornithology: "Life and Times of Wintering Sanderlings," Stephanie Williams, 7:45 p.m. Monday, Feb. 9, Stuart Observatory, Sapsucker Woods.

Physiology: "The Controls of Food Intake: Duodenal Osmoconcentration and Satiety in the Pig," Richard Houpt, 4:30 p.m. Tuesday, Feb. 10, G-3 Vet. Research Tower.

Psychology: "Developmental," John Condry, 3:30 p.m. Friday, Feb. 6, 202 Uris Hall.

Statistics: "Empirical Analysis of Labor Market Dynamics," Nicholas M. Kiefer, 3:15 p.m. Wednesday, Feb. 11, 105 ILR Conference Center.

Southeast Asia Program: "Vietnam Today," Ngo Vinh Long, anthropologist, 12:20 p.m. Thursday, Feb. 5, 102 West Ave.

Vegetable Crops: "Little Known Vegetables of the Andes," Walter Hodge, botanist, 4:30 p.m. Thursday, Feb. 5, 404 Plant Science Building.

Sports

Friday

Feb. 6, 5:15 p.m. Helen Newman. Women's Varsity Basketball-Princeton.

Feb. 6, 5:15 p.m. Barton. Men's JV Basketball-Ithaca College.

Feb. 6, 7:30 p.m. *Barton. Men's Varsity Basketball-Princeton.

Feb. 6, 7:30 p.m. *Lynch. Men's Varsity Hockey-Vermont.

Feb. 6, 7:30 p.m. Oxley Polo Arena. Women's Polo-Virginia.

Saturday

Feb. 7, 2 p.m. Barton. Men's Varsity Fencing-New Paltz and Penn State.

Feb. 7, 5:15 p.m. Barton. Men's JV Basketball-Tompkins Cortland Community College.

Feb. 7, 6 p.m. Teagle. Men's Varsity Gymnastics-Syracuse.

Feb. 7, 7:30 p.m. *Barton. Men's Varsity Basketball-Pennsylvania.

Feb. 7, 7:30 p.m. *Lynch. Men's Varsity Hockey-R.P.I.

Feb. 7, 8:15 p.m. *Oxley Polo Arena. Men's Polo-Virginia.

Sunday

Feb. 8, 1 p.m. Barton. Men's Varsity Indoor Track-Syracuse.

Tuesday

Feb. 10, 7 p.m. Helen Newman. Women's Varsity Gymnastics-Ithaca College.

Feb. 10, 7 p.m. Helen Newman. Women's Varsity Swimming-Ithaca College.

Friday

Feb. 13, 3 p.m. Barton. Men's Varsity Wrestling-Pennsylvania.

Feb. 13, 7 p.m. Barton. Men's Varsity Wrestling-James Madison.

Feb. 13, 7 p.m. Lynch. Women's Varsity Hockey-Providence.

Feb. 13, 7:30 p.m. Oxley Polo Arena. Women's Polo-Connecticut.

Saturday

Feb. 14, 1 p.m. Helen Newman. Women's Varsity Gymnastics-Cortland.

Feb. 14, 1 p.m. Helen Newman. Women's Varsity Swimming-Cortland.

Feb. 14, 2 p.m. Barton. Men's Varsity Gymnastics-Long Island.

Feb. 14, 2 p.m. Barton. Men's Varsity Wrestling-Princeton.

Feb. 14, 2 p.m. Lynch. Women's Varsity Hockey-Brown.

Feb. 14, 8:15 p.m. *Oxley Polo Arena. Men's Polo-Connecticut.

Calendar

Graduate Bulletin

The next regular meeting of the Graduate Faculty will be held at 4:30 p.m. on Friday, February 13, in Kaufmann Auditorium of Goldwin Smith Hall to approve the provisional degree list from January.

Doctoral students registered for the fall term (or those who took a leave of absence dated 8-30-79 or later) who wish to avoid paying the active-file fee of \$200 for the spring term must have met all degree requirements by February 20. This includes filing two acceptable copies of the thesis in the Graduate School office.

Late registration is being held Monday, Tuesday and Wednesday, February 2-4 in Barton Hall. Starting Thursday, February 5 late registration will be at the Registrar's Office, 222 Day Hall. A \$25 processing fee will be charged starting February 2.

Grades for graduate students for fall 1980 are available at Sage Graduate School office.

All graduate students must turn in course registration forms at Sage Graduate Center by February 20. File forms early and avoid long lines.

Graduate student stipend checks are now being distributed by the Bursar's Office, 260 Day Hall. Students must present a valid spring 1981 I.D. to obtain their checks. Most fellowship recipients will receive an increased stipend beginning with the February check; this reflects the reduced number of pay periods in the spring semester. The final payment for most academic year fellowship holders will be the May 1 check.

Please note that cash advances can no longer be processed for fellowship recipients. Students should budget their funds carefully to avoid financial emergencies.

Applications for 1981-82 National Defense Education Act-Title VI (Foreign Language and Area Studies) Fellowships are available at the Fellowship Office, 116 Sage Graduate Center. Students may apply for advanced language and related area studies training in the following world areas: East Asia, East Europe and Russia, Latin America, South Asia and Southeast Asia. The deadline to submit completed applications is February 6. Additional information may be obtained at the Fellowship Office.

Additional information on the awards whose deadlines follow may be obtained at the Fellowship Office, 116 Sage Graduate Center. Unless stated otherwise, prospective applicants must obtain applications directly from the agency concerned.

Feb. 6: National Defense Education Act-Title VI (FLAS) Fellowships—applications are available at the Fellowship Office.

Feb. 15: Kappa Kappa Gamma Sorority Graduate Rehabilitation Scholarships—applicants must be citizens of the United States or Canada; membership in the sorority is not a requirement.

Feb. 15: U.S. Department of Energy/Information Administration Research Residencies—appointments at DOE's facilities in Washington, DC for a 12-month period beginning September 1981 or for a 10-12 week period beginning June 1981 in fields related to energy analysis.

Feb. 15: Theodore Roosevelt Memorial Fund—several types of grants are available to doctoral candidates and recent graduates conducting research in North America in any phase of wildlife conservation or natural history related to the activities of the American Museum of Natural History.

Feb. 15: French-American Foundation Tocqueville Grant Program—awards for doctoral candidates in the social sciences who are preparing dissertations on 19th and 20th century France.

Feb. 28: Business & Professional Women's Clubs of New York State, Inc., Grace Legendre Fellowships—for women in any field who are U.S. citizens and residents of New York State; applicants

must show evidence of scholastic ability and financial need.

Mar. 1: Newberry Library Fellowships in the Humanities/Short-Term Resident Fellowships for Individual Research—awards for doctoral candidates in history and the humanities, as appropriate to the Library's collections, who require the Library's resources for their dissertation research.

Mar. 1: Postal Rate Commission Doctoral Dissertation Grants—for dissertation research in fields related to postal issues, including business administration, computer science, labor relations, political science and others.

Mar. 1: University of Utah/Marriner S. Eccles Graduate Fellowship—applicants must be U.S. citizens pursuing advanced degrees in subjects of major public concern; recipients must register with the University of Utah.

Mar. 3: American Numismatic Society—for dissertation research in the humanities or social sciences on topics in which the use of numismatic evidence plays an important part.

Mar. 3: American Numismatic Society Grants for Summer Study—for graduate students who will have completed at least one year of graduate work in selected fields at colleges or universities in the United States or Canada.

Mar. 9: Ralston Purina Company Food Science Fellowships—for individuals who have pursued a satisfactory undergraduate program oriented toward food science who plan graduate work in food science at selected institutions.

Mar. 11: New York State Herbert H. Lehman Graduate Fellowships in the Social Sciences, Public Affairs, or International Affairs—applicants must be legal residents of the U.S. since September 1980, who have received the baccalaureate degree not later than September 1981, and who have not yet entered upon any graduate study prior to July 1981; recipients must matriculate in approved programs in New York State.

Mar. 15: Institute of International Education/British Universities Summer Schools—awards made to graduates, graduating seniors and undergraduates for study at selected British schools during summer 1981; financial need is a consideration in making awards.

Mar. 15: International Atlantic Salmon Foundation—applicants must be legal residents of the United States or Canada (not necessarily in a degree program) for study/research in Atlantic salmon biology, management and related fields.

Mar. 16: U.S. Arms Control & Disarmament Agency/Hubert Humphrey Doctoral Fellowships in Arms Control and Disarmament—up to twelve awards will be made to doctoral candidates who are citizens or nationals of the United States for dissertation research on arms control and disarmament policy formulation.

Mar. 31: Civitan International Foundation Shropshire Memorial Scholarship Grants—for seniors or master's candidates planning careers in the teaching of history, political science, civics or special education.

Mar. 31: State Farm Companies Foundation Doctoral Dissertation Award—for dissertation research in fields related to the insurance industry; applications are available at the Career Center, 14 East Avenue.

Mar. 31: American Vacuum Society Scholarships for Graduate Study—for students engaged in graduate study at accredited graduate schools in North America in areas such as vacuum science and technology, vacuum metallurgy, surface physics, thin film research, and electronic materials and processing.

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

DEPARTMENT OF ENERGY ...APPROPRIATE TECHNOLOGY SMALL GRANTS PROGRAM

Commencing 15 January 81. Deadline receipt of applications - 19 March 81. Individuals, small businesses, local non-profit organizations and institutions. Native American Tribes, State government and its agencies are eligible to apply for projects located in the states of New York, New Jersey, Puerto Rico, and the U.S. Virgin Islands. The following project types will be considered: Idea Development Grants up to \$10,000 for the development of an idea or concept or an investigative finding in areas ranging from development of new concepts of energy sources to the utilization of old procedures or systems for a new application. Device Development: Grants up to \$50,000 for the systematic use and practical application of investigative findings and theories of a scientific or technical nature toward the production of, or improvements in useful products to meet specific performance requirements but exclusive of manufacturing and production engineering. The dominant characteristic is that the effort be pointed toward specific energy problem areas to develop and evaluate the feasibility and practicability of proposed solutions and determine their parameters. Demonstration: Grants up to \$50,000 for the testing of a system or technique under operational conditions to show that commercial application is technically, economically and environmentally feasible.

US-SPAIN POST-DOCTORAL RESEARCH AND TRAVEL GRANTS
The United States - Spain Joint Com-

mittee for Scientific and Technological Cooperation has announced a February 25 receipt deadline for applications in Spain. Grants are available for 6 to 12 months in the following areas: agriculture, natural resources, oceanography, environment, urban and regional planning, industrial technology, energy, biomedical sciences and basic sciences.

In addition, short term travel grants will be awarded to U.S. scientists for travel to Spain to exchange information on specific research topics or to learn special techniques.

Application forms may be obtained from Ms. Gloria Gaston-Shapiro, Bureau of Oceans and International Environmental and Scientific Affairs, Room 4330, Department of State, Washington, D.C. 20520. Additional information is available in Office of Sponsored Programs.

DEADLINE REMINDERS

PHS New Research Grant Application - March 1, 1981. Please submit to the Office of Sponsored Programs by February 13, 1981 to permit timely review and avoid extra postage charges.

USDA GENETIC MECHANISMS AND PHOTOSYNTHESIS
February 20, 1981.

NITROGEN FIXATION USDA
February 13, 1981.

PHOTOSYNTHESIS USDA
February 20, 1981.

NATIONAL SCIENCE FOUNDATION RESEARCH IN SCIENCE
March 9, 1981.

UNDERGRADUATE INSTRUCTIONAL SCIENTIFIC EQUIPMENT NSF
February 27, 1981. Contact Peter

Curtis by February 5, 1981.

DEPARTMENT OF ENERGY - ADVANCE COAL RESEARCH
March 12, 1981.

DHHS POVERTY RESEARCH CENTER
February 16, 1981.

SMALL BUSINESS ADMINISTRATION - MACROECONOMICS RESEARCH
February 27, 1981.

NEW YORK STATE COUNCIL ON THE ARTS
March 2, 1981. Only one deadline.

JAPAN UNITED STATES FRIENDSHIP COMMISSION
March 1, 1981.

AMERICAN COUNCIL FOR LEARNED SOCIETIES
Travel Grants for Humanists. March 1, 1981.

ED SECRETARY'S DISCRETIONARY PROGRAM

The Secretary of the Department of Education accepts applications for small grants for the Discretionary Program at any time during the year. The Program will support projects to develop or demonstrate, or both, innovative techniques, methods, or approaches which will contribute to the solution of educational problems.

It is recommended that proposers discuss their projects with Jan Solomon at ED's Office of School Improvement, (202) 426-7220, before submitting a proposal. Additional information is available in the Office of Sponsored Programs.

A. D. White Prof Plans Long Visit

A seven-week course in the Department of Psychology and a public lecture will result from an unusually long visit here this spring by an Andrew D. White Professor-at-Large.

Ragnar Rommetveit, professor of psychology at the University of Oslo, Norway, and a White Professor-at-Large through 1983, will offer Psychology 410, Social Interactional Features in Verbal Communication, for seven weeks during the spring semester.

He will also give a public lecture at 4 p.m. Thursday, Feb. 26, in Goldwin Smith Hall on what occurs when language is acquired.

A.D. White Professors are usually on campus for one to four weeks in a semester. They give specialized seminars and lectures and consult informally with students and faculty.

Rommetveit is considered the ranking psychologist in Norway. He earned his doctorate at Oslo and has taught there for many years. In 1965 he became director of Oslo's Institute of Psychology. He is a member of the Institute for Social Research in Oslo.

Rommetveit has made numerous visits to the United States, including a year at the Center for Advanced Studies in the Behavioral Sciences and a year at Cornell as a visiting professor, during which time he contributed to the program in psycholinguistics and social psychology.

He has published more than 70 papers and books and is best known for his work in the psychology and sociology of language. His most recent book, with R.M. Blaker, is "Studies of Language, Thought and Verbal Communication."

Created in 1965, the A.D. White

Professors program has supplemented Cornell's academic resources by enlisting distinguished scholars and scientists who become full members of the faculty while retaining affiliation with their home institution.

People

Elizabeth M. Pirko, manager of Cornell University's Purchasing Department, has been elected to the Board of Directors of The Upstate Regional Minority Purchasing Council, Inc. A member of the Cornell staff since 1951, Pirko was appointed to her current position in 1978. She was elected a board member of the recently formed council at the group's first election of officers, which took place in Cheektowaga, Jan. 14. The council was formed to assist business in the adoption of policies to insure the purchase of goods and services from minority-owned business firms.

Peggy Ulrich-Nims, associate director of the endowed budget office since 1979, has been named director of the Office of Institutional Planning and Analysis. She replaces John Rudan, who is now associated with Cornell's Office of Computer Services. In her new position Ulrich-

Nims will provide leadership and direction for the IPA office in developing processes, data and analyses for effective institutional planning and budgeting.

Warren R. Philipson, associate professor of remote sensing in the School of Civil and Environmental Engineering at Cornell University, has been elected region director of the Central New York Region of the American Society of Photogrammetry. In this three-year (1981-83) position, he will serve on the Board of Directors of the society, representing upstate New York, Vermont and northern Pennsylvania. This includes some 180 individuals engaged in photogrammetry or remote sensing, in government, industry or education.



Success — for the Senior Class gift effort and for Austin Kiplinger '39 in donning a Class of '81 T-shirt — is recognized happily by Kenneth DiPietro '81 (left) and Wendy Rosenthal '81, co-chairpersons of the Senior Class Gift Committee. Kiplinger, who challenged the seniors to raise at least \$19,800 from at least 1,000 seniors in order to qualify for a matching gift from him, spoke to some 30 Senior Class Gift Committee workers at a luncheon Saturday at the Herbert F. Johnson Museum of Art. As of Feb. 1, the fund-raising had yielded \$21,727 from 944 seniors. More than \$16,000 of the total will go for the new performing arts facility. Another \$5,000 has been designated for book fund endowment for University Libraries.

Some Other Trustee Actions

Bovine Research Facility Okayed

The Board of Trustees has authorized the construction of a specific pathogen free (SPF) facility for the Bovine Health Research Center in the College of Veterinary Medicine, and approved a name change for the College's Feline Research Laboratory.

At the January meeting in New York City, the trustees authorized spending up to \$662,000 for design and construction of the facility, the first unit in the Bovine Health Research Center planned for a site in the Hungerford Hill/Snyder Hill area. The specially-constructed building will allow researchers to produce cattle that are free of disease-causing contaminating agents.

Construction of the new facility will be financed through gifts from an anonymous foundation.

With the approval of trustees, the Feline Research Laboratory will become the Cornell Feline Health Center. The name change was recommended by the Feline Advisory Council as well as by Laboratory members because the term "research" no longer adequately describes the entire feline program, which also includes clinical medicine, diagnostics, extension and continuing education.

Computer Equipment Will Be Purchased

The Board of Trustees has authorized the purchase of some \$550,000 in equipment for the Cornell Office of Computer Services.

At its January meeting in New York City, the board approved the purchase of an INTEL 3805 semiconductor storage device to replace an obsolete storage unit currently being leased by the office. The new device, which will cost \$275,000, is expected to improve the performance of the university's central

computing equipment by providing storage space at a faster rate while requiring significantly less power, air conditioning and space.

An additional \$275,000 was appropriated by the trustees for the purchase of equipment now being leased by the Office of Computer Services, including controllers, printers and card readers. The equipment has been under lease for some time and has accrued purchase credits which make it possible to amortize a purchase at current lease rates in less than two years.

The equipment purchases will be financed through the Office of Computer Services' currently budgeted operating funds.

Facilities Projects Win Board Approval

The Board of Trustees has authorized further renovations to two classroom buildings, an increase in the construction budget for a new research facility, and the purchase of laboratory furnishings for a biological sciences facility currently under construction.

Meeting Jan. 22-24 in New York City, the trustees took the following actions:

— Approved the next phase of a four-year renovation program on Rockefeller and Goldwin Smith Halls. The \$1,161,000 appropriation brings to \$3.1 million the amount authorized for the renovation project, which was begun in 1979.

— Authorized an increase in the project budget of an ultra-clean laboratory at Cornell's National Research and Resource Facility for Submicron Structures from \$3.4 million to \$3,780,000. The laboratory, which is attached to Phillips Hall in the School of Electrical Engineering, will be used for the study of electronics devices with dimensions of less than one micron (one millionth of a meter).

— Appropriated \$1,250,000 for lab-

oratory furnishings for the Biological Sciences Facility. Costs of the new facility, which will house the Ecology and Systematics and the Neurobiology and Behavior Sections, are expected to total \$15,450,000.

Purchase of furnishings will allow faculty research programs in the two sections, which are now housed off-campus in Langmuir Laboratory, to continue without interruption. Langmuir Laboratory equipment that is not antiquated or custom-fitted will be relocated to the new facility.

Costs of the three projects will be financed through gifts to the university.

Institute for Peace Studies Established

An Institute for Peace Studies and Peace Sciences has been established here pending the acquisition of at least \$5 million in endowment.

The approval was given during the January meeting of the Board of Trustees in New York City. The trustees acted upon the recommendations of the board's Academic Affairs Committee and that of the University's Faculty Council of Representatives.

According to the board's resolution the institute will be subject to a comprehensive review and report to the trustees in 1984.

"Continuation of the institute at that time," according to Provost W. Keith Kennedy, "will depend upon the quality of the program, interest on the part of faculty and students, and available funding."

According to its planners: "The institute is intended to provide a mechanism for enhancing and broadening the university's scholarly activities dealing with the study of conflict management and other topics related to problems of attaining and maintaining peace...."

Principal planners behind the institute include Walter Isard, pro-

Supervisory Training Program Will Begin

A new supervisory training program — "An idea whose time has come," according to the director of personnel development — will begin Feb. 16 with some 50 Cornell supervisors participating.

"It's our objective to provide a standardized training program that covers areas common to all supervisory positions," said Gerald S. Thomas, director of personnel development. "The total program will examine all factors involved in effective supervision — the technical, the human, the conceptual.

"Through this program we expect to develop supervisors who are competent to promote and sustain an employee relations environment that fosters productivity, commitment and job satisfaction.

"Training courses and supplemental approaches do not by themselves assure effective supervision," Thomas added, "but they can provide the foundation for development and job growth."

The new program is the result of nearly a year of planning and preparation. A pilot program, in which some 30 supervisors participated, began in December and will end this month.

The first "real" participants will meet in two, two-hour sessions each week for six weeks.

More than 1,100 men and women at Cornell hold supervisory positions, Thomas said. "Pending the availability of resources," he said, all are expected eventually to participate in the year-round program.

Thomas said the university's top leadership regards this program as

"absolutely essential for all new and, we hope, old supervisors."

The first phase of the three-part program focuses on "results-oriented supervision," and Thomas noted that its intention is "to help supervisors perform more effectively."

The second phase will concentrate on the human factors in supervision. The third will deal with the design and management of complex projects.

The "results-oriented supervision" training program will deal with:

Today's supervisor, getting better results, supervision and the law, the employment interview, the supervisor and equal employment opportunity, solving employee problems, handling employee complaints, performance appraisal, pay and job classification systems, understanding benefits, communication and the supervisor, the development process.

Thomas stressed that activities to supplement the basic training are crucial to the development of skills needed for good supervisory management.

As examples of supplements to the "results-oriented supervision" training, Thomas mentioned attendance at Personnel's course in job instruction training for supervisors and service on a departmental task force on cost-saving.

The training sessions will be conducted by managers in University Personnel Services. Jared Harrison is the coordinator of the program.

Blue Light Buses Resume Runs on Expanded Route

The Evening Blue Light Bus on campus has resumed an expanded route, including off-campus stops, and a revised schedule.

The free service, which resumed operation Monday, Feb. 2, runs Monday through Friday from 6:30 p.m. to 12 midnight. This semester's route changes will serve sororities and fraternities in the area of Triphammer Road, Dearborn Place, Wyckoff and Thurston Avenues, and residents of the Collegetown area.

The bus travels the entire route in one-half hour.

Buses travel from the Dairy Bar to North Campus student resi-

dences, West Campus, and Collegetown. Bus stops are at the Dairy Bar, Plant Sciences, the corners of Tower Road and Garden Avenue, and Tower Road and East Avenue, Clark Hall, Balch Dormitory, Donlon Circle, North Campus Dorm No. 7, the A lot exit, the corners of Jessup Road and Triphammer Road, Dearborn Place and Wyckoff Avenue, Wyckoff Avenue and Thurston Avenue, Risley Dormitory, Baker Flagpole on West Avenue, the corner of Campus Road and Central at Anabel Taylor Hall, Cascadilla Hall in Collegetown, the corner of Campus Road and Central Avenue near Carpenter Hall, Uris Hall, Plant Sciences, and the Dairy Bar.

The changes were proposed to provide service to areas which have a high number of student residences, and a schedule that can be met by the bus. A recent student study proposed the schedule and route modifications so that service could be extended off campus to areas of strong demand.

The Blue Light Bus service was implemented four years ago to help alleviate safety concerns in the evening hours.

Schedules may be obtained from the Office of Transportation Services (256-4628), Office of the Dean of Students (256-3608), or the Information and Referral Center in Day Hall.

fessor of government, and George Quester, professor of government and director of Cornell's Peace Program, which would be integral to the center's activities.

Other faculty currently involved are Peter Loucks, civil and environmental engineering; William Lucas, operations research and industrial engineering; Sidney Saltzman, city and regional planning; Eric Thorbecke, nutritional sciences and economics; Robin Williams, sociology; Steven Caldwell, sociology; Richard Schuler, economics and civil and environmental engineering, and Robert Kalter, agricultural economics.

Bulletin of the Faculty

December 10, 1980
110 Ives Hall

The Speaker, Russell D. Martin, called the meeting to order at 4:35 p.m., with 58 members and several visitors in attendance.

The Chair called on the Acting Dean of the Faculty, Joseph B. Bugliari. Professor Bugliari stated: "I would like to tell you about two things today before the meeting starts. First, I should say a word or two about Ken Greisen. As some of you may know or have heard, over Thanksgiving he suffered what he himself calls a partial stroke. I will tell you that he has been home, that there are no residual problems that anybody knows of, that he has been up and around. In fact, I've talked with Byron Saunders and he was out and about town. He is now, however, up in Syracuse undergoing some testing. While there is no long-range prognosis at present, it looks like he will return very shortly. I can't tell you exactly when. Jean Morehouse talked with Helen Greisen's daughter today, and apparently they're still testing but they're not doing anything more that we know of. Anyway, while Ken is out, we will struggle on and if you have any problems or questions, please call Jean or myself, and we'll do the best we can until Ken returns. If it does look like he will be out for some time, which I don't expect at all, we have made arrangements to cover the office between Jean Morehouse and Judy Bower, Russ Martin, the Speaker, Bob VonBerg, the Chairman of the Executive Committee, and myself. And we ask for your help and understanding and particularly your patience if we can't get the information as fast as you might have been able to get it from Ken. I really don't think there should be any questions, but if anybody has one I'll be glad to try to answer it.

"I would like to mention one other thing that in my short duration in trying to solve the problems of the Dean's office that has come up - the problem with the exam schedules. First let me say that we are fully aware of the problems of all types that have been brought forward by faculty and students with the exam schedule that we have this fall. And we're doing our utmost to cope with them as best we can on an individual basis. We also are incidentally keeping track of the problems so that they will not be repeated. Obviously the biggest problem centers around Saturday - the first day of exams. As you may know the first day of exams is normally an extremely heavy exam day anyway and the fact that it falls on a Saturday obviously creates a problem particularly for some students. That however was apparently well thought out - at least by the committee that proposed the calendar and was taken into consideration. What wasn't taken into consideration was the fact that after the calendar was established the Graduate Record Exam also got scheduled for that first Saturday and that of course has created an unbelievable set of problems. We are trying again to do the best we can, but there is no solution easy or satisfactory to everybody, particularly when you have 50 or 60 students in one class who are taking the Graduate Record Exam. Again, I ask for your forbearance. If you have a problem, please call me. I'm getting calls from students and faculty and we're trying to do the best and to be as consistent as we can in trying to solve the problem. The problem is compounded by the fact that we can't, if it is a big exam given on the first day, give the make-up on the legitimate make-up day, which is the 23rd of December, that seems to be a very difficult thing to try to impose on anyone. But we've been doing other things which are probably - I won't say illegal, no lawyer would ever say that - but at least we're stretching things a little bit. Are there any questions from anyone with respect to that?"

A question was raised as to why Cornell could not assign exam dates before the semester even began? He added that he already has four make-ups in addition to the six independent exams.

Professor Bugliari said he could not answer the question, but added that he

does know that other institutions publish the exam schedules right in their course catalogs. "Personally, I think that one of the major problems is that we have such a short exam schedule with tremendous pressure to put all the exams in the big courses at the beginning. One of the things that we're also finding is the number of students who seem to have three exams scheduled on the first day - not necessarily in conflict, although there is some of that too - but the number of students who seem to have an exam scheduled at the 8 o'clock period, ten o'clock period and the two o'clock period on the same day. I don't know how we can solve that problem unless we spread out the exam period, which is not again practical if everything is going to be crammed between Labor Day and Christmas. The other problem that we face in the way of a protest is if a professor has a relatively large course and has an exam scheduled on last days on the schedule. We then get a protest because it's impossible to keep the graders and to get that exam graded. It is a real problem. A very real problem. And we're keeping a record, as I said, to see if we can in fact at least for next semester try and do something a little bit better. But I want you to know that the date for the Graduate Record Exam was not known at the time that the calendar was made. We did not deliberately fall into that trap."

The Speaker said he always thought Ken Greisen was quite a man and now he knows it. "You'll note that Joe mentioned it takes five to replace him. I'm sure all of you join us in wishing him well."

The next item on the agenda was the approval of the October 8 minutes. The Secretary said he had received one correction from Assistant Professor Robert G. Bland, a sentence he had quoted at that meeting which apparently was omitted. On page 5205C, second paragraph, the fifth sentence should read: It seemed to Professor Bland that almost all of the responsibility is placed on the Institute for such decisions, since according to the excerpt: "When the salary comes from only one of the units involved the procedures and decisions on salary and promotion are those of that unit." (additions in bold face) There being no further additions or corrections to the minutes, they stood approved as corrected.

The Chair called on President Frank H.T. Rhodes for a report on Cornell athletics and other items of concern.

1. REPORT FROM PRESIDENT RHODES

President Rhodes began: "Mr. Speaker, Ladies and Gentlemen, I want to associate myself with the remarks that have just been made about Ken Greisen and his indisposition. I talked with Ken as recently as Sunday evening and he is in very good spirits and it's good to know that. He is not only a great Dean; he's also a great person, and I want to join with the good wishes that members of the FCR have expressed today.

"I ought also to say as somebody who has no responsibility for the calendar, a position that is probably unique amongst those in this room, that I reluctantly recognize a new law on the calendar and exam schedule. The law states that of all possible solutions, every one is unsatisfactory, and that solutions may be derived only by trading off competing degrees of unsatisfactoriness.

"The title that was given to my talk is 'Cornell athletics and other concerns'. I'm not sure that that's the right framework in which to put athletics, but I welcome the opportunity towards the end of the term to bring you up to date on some recent events and I hope you'll allow me a little time to do that. I'm going to be very selective because of the range of events that I have to cover, but I need hardly say that I'd be glad to respond to any questions that you might have concerning them.

"The Speaker suggested that I might want to comment on the action of the Trustees yesterday with regard to the proposed Institute for Peace Studies and Peace Science. That item was tabled for one month and it was suggested that I

might comment on the reasons for that decision, in order to allay concern on the part of those of you who debated it at some length. The proposal was debated with thoroughness and care by the Trustees Academic Affairs Committee, and two of the faculty members who are sponsors of the proposed Institute - two of the senior members - were present for that discussion. They made a presentation and they persuaded the members of the Academic Affairs Committee, that this was a desirable development. It then went to the Executive Committee of the Board of Trustees and there was a surprisingly long discussion. It was deferred in the end because the Executive Committee did not have access to the planning document that was the basis for

"...major concern...is the racial, religious and ethnic incidents ...during the past semester."

the proposal before them. They had a very short recommendation with about a ten or twelve line summary of what was proposed, and they felt it would be irresponsible to identify a priority for fund raising without having a more detailed statement of what the proposed Institute involved. That will be reviewed again at the January meeting of the Board. That information will be made available to them and they will take action at that time.

"Let me comment briefly on half a dozen other developments during the term that are of some significance to the general health of the University. I'm happy to report that as the result of the referendum on campus government, the drafting committees have now completed work on proposed charters for the Student and Employee Assemblies. They reached the office just a few days ago, and we shall be looking at those together over the next few days, and hope to take a recommendation to the January meeting of the Board of Trustees.

"One of the recurrent fall phenomena that is always of interest to us is the number of NSF Fellowships that we receive in any one year. I'm happy to report that this year the total is 20 - which is encouraging, though it's down two from the total a year ago - and we shall have 68 NSF Fellows in residence on the campus next term. You know that nationwide there are about 450 or 460 of these awards made and they're highly competitive. In the equally competitive awards, provided by the State for the social sciences - the Herbert H. Lehman Awards - this year we received six out of a total of 30 that were awarded. That's up from four a year ago. So we gained two and lost two.

"I'd be remiss if I didn't say something about another topic that I believe is one of major concern to the whole campus community, and that is the racial, religious and ethnic incidents that have taken place during the past semester. You will know that they have been the subject of a number of public statements from various people and amongst those statements, I twice expressed my concern at what has taken place. I've had the privilege of meeting with four different representative groups of minority members of the campus. And I have to say that those meetings are amongst the most constructive that I have attended. I have a great admiration for the responsible and constructive way that members of those groups are helping us address the problems. I shall be meeting on Sunday evening with members of Ujamaa - the fifth group that I want to meet with - and I look forward to that conversation. The result of those meetings and of the incidents themselves has been the issuance of a statement on racial and ethnic harassment, which if you saw last week's Chronicle, you may have had the opportunity to read. I'm happy to report that since the initial incidents were reported, there has been only one additional incident of racial harassment. Now one is one too many, but it is encouraging that the effect of

that condemnation seems to have been heard and felt. And I want to say to members of the Faculty, if I may, that nothing has encouraged me more than the double-page spread in the Sun which so many members of the Faculty representing so many departments, decided at their own expense to publish. I regard that as one of the most positive and constructive statements that could possibly have been made and I deeply appreciate the concern that it represents on the part of members of the Faculty. It's a matter of satisfaction to see that kind of unity in the face of acts that all of us find abhorrent.

"Let me turn to other matters. You are probably all aware of the death of one of the most respected and beloved

members of the Cornell community, Professor Emeritus Harry Caplan, who died just over a week ago. A memorial service was held on Friday and it was particularly good to see Anabel Taylor Chapel full to overflowing with representatives, not only of every conceivable Cornell constituency on the campus, but also with those of so many different generations of Cornellians who traveled back from various parts of the country to be present.

"Work continues on two major buildings on the campus. The biological sciences building continues on schedule and we expect completion by December next year. The outside has now been glazed and it begins to look like a building that one would want to live and work in. The sub-micron building in the Engineering quad is also continuing, though it is behind schedule, and completion of that, originally expected by the end of this year, is now scheduled for May of '81. Those two buildings, then, will both be coming on stream next year.

"I want also to report that on February 24 there will be an election sponsored by the UAW which will involve over 900 of our maintenance and service personnel on campus. It's perhaps inevitable in that situation that the rhetoric may increase to some extent and I hope that moderation and respect for rights of those employees involved to be fully and accurately informed will continue to mark the way in which both University and the union address the issues.

"Finally I want to talk about Cornell athletics as one of the items of interest. I do so because athletics have been very much in the news this past term. Some of those news stories have been very conspicuous. Newsweek, a month or so ago, had a cover article which was headed 'The Shame of Collegiate Athletics'. The national attention which has been devoted to this issue is due to the fact that the Pacific 10 Conference has decimated itself to the Pac 5 for this year's championships and also for the post-season bowls. And there has been particular concern about one major West coast university which acknowledged recently that over 300 athletes had been admitted in the last ten years with admission qualifications that were significantly lower than those regarded as the minimum for the student body as a whole. Almost all of those were in football, and almost all of them failed to graduate. Those are sobering facts and clearly they are matters of concern to the whole educational world. There were two other less conspicuous but very important developments in athletics during the past term which are also significant. There has been a continuing controversy between two organizational bodies concerning the affiliation of women in intercollegiate athletics, and, although that has made headlines in such publications as the Chronicle for Higher Education, it's sufficiently technical not yet to have attracted much attention in the popular press. The debate is between the NCAA and the AIAW - the Association

for Intercollegiate Athletics for Women. That may or may not be resolved in meetings which take place early next year but it is to be hoped that it's resolved speedily and the kind of warfare which has marked the relationship between the two organizations in recent months will cease.

"This has also been the first term in which we have had a federal review of the adequacy of the facilities for women athletes under the terms of Title IX. Cornell is one of 84 institutions which will be visited by federal representatives this year. We were visited by a team of ten inspectors who spent a week on campus and then came back for a further period of two or three days to check on some of the results. We've been cooperative and friendly and we look forward to the results of that group's visit.

"Let me just say, however, that it's not surprising, in view of the revelations that have taken place about intercollegiate athletics, that two very extreme viewpoints have emerged during the past few months. At the one extreme we have people who say, 'Well, this cheating has continued for years and there's nothing new about it. So let the competition continue. Let's provide the best athletes that money can buy on any particular campus.' And the second reaction at the other end of the spectrum is now those who say, 'This is such an abomination to all the ideals that higher education professes, that we ought simply to prohibit intercollegiate athletics.' I happen to believe that both those views are extreme and that a better solution, which is the one we pursue at Cornell, is to continue with varsity athletics but to continue them within an atmosphere of balanced understanding, responsible regulation and good sense. I say that because I believe that, in spite of some recent statements to the contrary, by people whose opinion I greatly respect, athletics do play a useful part in student life and in university life. I believe they contribute to the sense of well-being for the campus community as a whole and provide an opportunity for hard training, for personal discipline, for self-training and for self-regulation within a context of supporting competitiveness. They provide opportunities for friendships and loyalties that extend far beyond the end of the season and are sometimes amongst the most enduring that students make during their college years. And they provide a sense of institutional identity - not just for the campus - but one that extends far beyond it, especially to alumni groups. But most of all, it seems to me, athletic activities, properly organized and fairly administered, provide exactly the right kind of balance that we require to student life on the campus, a healthy individual existence balanced between the kind of bookish preoccupation with which we're very much concerned, and the vigorous physical exercise which athletics involve. They provide a balance between tough-minded competition on the one hand and recognized restraints in the rules of the game on the other. And it is that balance that lends so much to the personal satisfaction that comes from college athletics.

"There have been tensions - not only nationwide but there have been tensions within the various leagues involved. And I'm happy to say that in the Ivy League - the one to which we belong - although some tensions exist - there's a very high degree of unanimity concerning the principles that should govern Ivy athletics. We can summarize them under ten points, and I'll do it with the utmost brevity, and then respond if you have questions concerning them. First of all, they ought to be maintained in the Ivy League within a perspective that holds academic programs to be the paramount business of the University and academic and personal growth of the student to be the end product of that. Second the member institutions are committed to equal opportunities for both men and women athletes. And third, we ought to look and do look primarily within our own group for competition, and so it is unlikely that we shall continue to play some of the teams in the future that we

Bulletin of the Faculty

now play at present. Some of these opponents have chosen to become more heavily committed to athletics than we have and some of those long rivalries will be discontinued. We've seen that already in football between such teams as Princeton and Rutgers this last season. Fourth, there is a belief that every institution ought not merely to tolerate but to welcome a healthy, balanced competition, so that no one institution is at the top of the league in any one sport for too long. In general there ought to be a balance between institutions concerning competitiveness in the individual sports. Fifth, we ought to encourage wide participation in all athletic activities. That means that though most of our athletes will have been identified by someone in their high school years, there ought to be room on the teams for those who are walk-on athletes, and a place found to accommodate them. They ought further to be representative of their class, and I want to say a little more about that in a moment, and not significantly different in terms of academic performance to the extent that exists in some other institutions. And sixth, they should be admitted only through the normal admissions process and on the basis of financial aid that is related to needs. Seventh, they should be held accountable to the standards to which other students are accountable in terms of their academic progress, and their athletic program should not interfere with progress towards their degree.

"Now there have been two recent concerns in the Ivy League that are worth a moment's reflection. The first concern is the fact that in the years since 1954, when the league came into existence, there has been a widening of the gap between the admissions qualifications of athletes and those of the rest of the freshman class. I don't want to exaggerate that widening gap because the gap exists in all universities, but the degree of widening has been sufficiently serious to merit very careful study. That study is going on at all member institutions, including Cornell. In contrast to that I have to add that once they're on board the average performance of varsity athletes in terms of grade point average is slightly better than that for all students as a whole. At Cornell it's 2.85 as opposed to 2.8 and athletes do better during the term of their competitive sports than they do in the off-season. They graduate with no less frequency. So there are many good things going for them, but the fact remains that there is concern about the widening gap between the mean SAT scores of the athletic group and that of the class as a whole.

"The second thing that's been a source of difference in the Ivy League is one in which I come out on the minority side, and that concerns the whole question of the extent to which the league should restrict the student's right to practice and participate, especially in certain sports. Let me give you one example of that. At a summer meeting of the Ivy League presidents, a vote was taken in which the Ivy League chose to prohibit out of season practice for certain sports. That means for example that sports such as baseball and lacrosse, which are two of Cornell's great interests and strengths, are prohibited from organized practice during the fall semester. That seems to me to be an unwise and an undesirable decision. It's not clear that that decision is going to be changed in short term, but I want simply to comment on its implications. It seems to me unwise, first of all, because it really interferes with the student's decision on how to spend his or her time. We don't arbitrarily restrict the time that a student can spend in student government or as president of a house, or working on the Sun, or any other activity. And I don't understand by what right we now choose to restrict the time they spend on athletics. But such a decision is not only unwise, it seems to me also to be undesirable. Undesirable, first because practice is allowed under team captains, but not under coaches. The time spent may be just the same, but the usefulness will, I suspect, be much less if that time

is spent practicing under captains than it would have been under coaches. It seems to me, second, undesirable because two team physicians - one at Cornell and one at another Ivy League institution - have warned us that unsupervised practice is dangerous in almost all contact sports, and the incidence of injuries is likely to increase under such conditions. And third, this decision seems to me to be undesirable because it almost guarantees that we shall not have walk-on athletes as members of these teams. There is little prospect that someone not having played lacrosse before can have any real hope of joining a varsity team, a j.v. team, if practice is limited to the semester in which that season takes place. That result would be at variance with one from stated goals. I mention that because it seems to me that if we are to have athletics as a healthy part of our community life at Cornell, we ought to encourage in them the high standards of athletic performance and personal achievement that we expect in other areas of university life. The 'no out of season practice' rule will discourage this excellence. We do have in fact a fair degree of success in almost every aspect of organized athletic activities. Cornell is remarkable in that over 60% of the members of our student body take part in some organized activities. About 1500 men and women are involved on our intercollegiate teams. Over 4000 students are enrolled in physical education courses, even though the requirement was cut in two some time ago. Cornell teams, both men's and women's, have been highly competitive at both the regional and national level in certain areas.

"And so I believe we have much to be proud of in our athletic programs. What we have to do as the debate continues, and it will continue about athletics, is to balance a sense of excellence in athletics with a sense of proportion and of academic priorities. That means I believe that we have to have an understanding on the part of the Faculty, the Students, the Trustees, the Administration, and the Alumni about the place of athletics in university life. Second it means we have to take seriously the admission problems that face us. We don't at Cornell have a unified undergraduate admissions office, and that gives us some problems in comparison with our sister institutions. But we do need to take seriously this widening gap on admission scores between athletes and non-athletes. Third, we have to encourage friends of Cornell interested in athletics, to continue to support them at an increasingly generous level. And there is encouraging evidence that that will continue to take place. And fourth, we have to ensure that our facilities continue to be adequate. We're going to be competing in the eighties and nineties for the best students to come to Cornell, and part of the attractiveness of the University, in addition to its academic programs, will be the range of cultural, social and athletic activities that we have to offer. Those have to be complemented by an athletic staff which is outstanding, which shares the sort of distinction we look for on the part of the faculty. And under the leadership of Dick Schultz and Martha Arnett, I believe we have such a group.

"I've talked at some length about this topic because, although athletics has not surfaced at Cornell in a way that it has at many other institutions, that does not mean that we should be without a policy or that we should be without concern. Mr. Speaker, I would be very happy to reply to questions."

The Speaker thanked President Rhodes and asked if there were any questions. There being none, the Chair next called upon Professor John Nation, Chairman of the Committee on the Professional and Economic Status of the Faculty, for a report on Faculty Salaries and Compensation.

2. REPORT ON FACULTY SALARIES AND COMPENSATION

Professor John Nation, Electrical Engineering, began: "I intend to keep my remarks this afternoon very brief because I think the substance of all I have

to say is already set forth in the document that's been distributed. In making a comparison of salaries and compensation at Cornell with other institutions, one has a particularly difficult problem unique to Cornell because of the division between the statutory and the endowed units. The statutory units are represented by the University in salary matters to Albany. That is, the University represents the statutory units in determining salaries in negotiations with the State Administration, whereas it determines the salaries within the endowed units. The statutory units are also covered by the Foraker Committee which advises the Provost on matters pertaining to the statutory units. In making the comparisons that I have done in the document that's been distributed to you, we've taken the step of including both the statutory units and the endowed units - although the principal concern of the Committee at this stage is of course within the endowed units where the University has direct control over the affairs. However, the information is provided for both sets of units. The bottom line of the report is that there has been a steady erosion in faculty salaries compared to those in peer institutions. And this has continued over at least four years in which we have information available to us, and there is serious and good evidence that it's continued for at least six years. The statutory units are at the present time in a particularly bad situation because of the deferred increases.

"What are these conclusions based on? First we've looked at absolute salaries and secondly the rate at which these salaries are increasing. There are a number of other criteria that can be used and have indeed been used by the University Administration, such as the greater voluntary resignations, as an indicator of whether the salaries at Cornell are competitive or not. One might want to look at an index of costs of living in various parts of the country. This also has been carried out by the Administration. For our purposes, however, we've adopted the simple expedient of using the absolute ranking within the Ivy League for comparison for both statutory and endowed units and I've included also some of the land grant institutions which are recognized as comparative for the statutory units. The other comparative for statutory units which I did not include is the SUNY units.

"The salaries and compensation are tabulated in both these categories in descending order of salary in the 79-80 academic year, which is the latest information available to us at the time this report was prepared, so that you can look and see quite clearly where Cornell endowed or statutory units rank compared to the other schools within the Ivy League. The third column in Tables 1 and 2 lists the percentage change in salary between the first year - the base year that we chose - and the 79-80 academic year. We have essentially maintained our absolute ranking - that is, the assistant and associate professors continue to rank about half-way through the Ivy League, whereas the full professors rank something like six out of eight within the Ivy League. On the other hand, if you compare the rate of salary increase with the average increase throughout the rest of the Ivy League, there is very little doubt that we've been losing ground. If you look at Table 3, that summarizes the amount of ground lost over that four year period. This, to make it a little clearer what it actually is, is the percentage point difference - point spread - between the salary increases at Cornell and the average of the institutions excluding Cornell. I don't suggest that these numbers are solid numbers. What I do suggest is that the very large number of negative figures is significant. We appear to be losing ground to the average salaries in the Ivy League, to all AAUP category 1 private institutions, and indeed to the land grant institutions. I should point out first of all that the percentage changes that are noted there are for the average change in salary for a given rank. The percentage change of salary for those staying in rank is higher

than that: typically, one to two percentage points higher each year. So if you're thinking of inflation, you should add in one or two percent per year to the figures that I have given there.

"Where do we stand at the moment? Well, we have reported and discussed these figures with the Provost's Office, with Jim Spencer in particular, and indeed with the Budget Committee of the Faculty Council of Representatives. I feel that we've had profitable exchanges with both these groups and I believe that the administration accepts that salaries have lost ground to peer institutions in the last several years. The Budget Committee is currently working with the Provost's Office to try to establish a balance between tuition increases in the next year and salary increases. There is a fairly close and delicate balance I gather between these two items. On a slightly brighter note just to conclude this, there is some preliminary evidence in the 1980-81 academic year salaries, as reported by the MIT survey that was made available to me last week, that we have indeed made some progress towards at least arresting this decline in the last year. It's a little premature to make the statement that it has been arrested. There is some evidence that the trend has been reversed at least in a comparison with a limited number of other institutions. I'll attempt to answer any questions."

The Chair opened the floor for questions.

Professor Jay Orear, Physics, said he had a question, and if Professor Nation could not answer it, perhaps the President could. "My memory is a little hazy. As I recall last year's budget, it was not decided until very late in the year, after all the different budget items came out, just what would be the specific salary level for the Faculty - how much increase there would be. It's not really budgeted in advance, but it seems to me it was left till the end, as if it was in a sense the lowest priority item. Let me reduce my question to some over simplifications. The impression I have is once the tuition increase is decided upon and once the different figures come in for what other costs are to the University, what's left over is relegated to faculty salaries. If that is the correct situation, it seems to me it's just backwards. It should first be decided as the top priority what should be the new faculty salaries, and even if you wish, what the tuition, and then as the different budget items come in, all right, then you end up either in the red or in the black. You want to average out to break even. The danger of leaving salaries as the lowest priority, is that somewhere in the middle of the year, some unforeseen expenses could occur - like there could be a major earthquake splitting the University in half or something, and destroying a lot of buildings, and then there would be a lot of extra expenses. And if you leave salaries to the very end, there'll be no money left over for the salaries and individual faculty members would be the ones that have to pay for the earthquake funding which is unfair."

Professor Nation thought that question was addressed to the President rather than to himself.

President Rhodes responded: "I take it that I'm replying just because as a geologist I'm expected to have some experience. I think the point that Professor Orear raises is an important one, and I want simply to assure him that in fact it works in the way that he would regard as desirable. It is not the case that we dream up a tuition increase that we can get away with so to speak and then much later in the year we find out what the increased cost of energy is going to be, and if we have anything left over it goes into salaries. It works in exactly the opposite direction. We determine what is what we think should be a competitive and possible salary increase, we add on the energy costs, the increases for library and so on, and we end up with a tuition figure. Last year we went earlier to the Trustees with a recommended increase than we did this year. We went in January in fact with a balanced budget for \$100.6 million and

tuition at \$5860. Because of unforeseen increases and because we wanted to maintain the salary increase that we had committed ourselves to, we increased tuition, you'll remember, in May, with a degree of unpopularity to \$6000 a year and got a balanced budget of 102 million. We did that precisely because we had to accommodate the salary level that we set as our target. What hurt us badly a year ago is that we learned - we all learned - that inflation can increase so rapidly that we were too early, by determining in December as we did, what should be both our salary program and tuition increase. And we've now deferred it until the March meeting of the Board of Trustees, in order to be able to respond to late changes. But we do it in exactly the way that you think desirable, and not the other way around. That doesn't mean that we can guarantee that it's going to work out at what we'd all want. But we certainly don't do it in the reverse direction."

Professor Charles S. Levy, English, wished to state the position of the Executive Committee, Cornell Chapter, AAUP: the Committee urges, particularly in view of the dismal performance by the University to which the figures in today's report testify, that a mid-year correction - one commensurate with those figures - now be made in faculty compensation. Some home-truths will help show how urgently we need to make an unambiguous start at reversing the trend that on the national scale profoundly concerns the entire Association, a trend towards economic disaster which threatens the middle- and long-term survival of the profession.

The Association, which to substantiate this concern has assembled, among many other data, the figures Professor Nation analyzes, stresses the point that the professoriate stands in a different relationship to universities and colleges from that existing between our sister professions and their associated institutions. Much more, for example, than do the courts for the lawyers or the hospitals for the physicians, the universities and colleges serve as the locus of our profession and the guarantor of its survival; for many of the disciplines we represent, in fact, the universities and colleges virtually alone perform this function. Yet these institutions all too frequently now tend to stand apart from the professoriate and insist that they simply cannot draw up the kind of budget that will provide for its survival. If this apostasy of the institutions from the profession persists, neither the profession nor of course the institutions themselves will survive the century in any form we should prefer to contemplate, but will change in ways perhaps suggested by what we have long seen taking place in the profession at the secondary level.

We have recently been reminded again that, whatever may be the other resources of the University, only on the strength of its human resources, of the men and women who do its work, can it succeed in its principal mission, the advancement and preservation of learning. How adequately does the University budget now provide for maintaining and enhancing these human resources? Brief reference to a couple of check-points along our career- and salary-scale will sketch the answer:

1) A number of our departments this year offered entering assistant professors an annual salary of about \$17,000, itself a substantial increase from past entry-level salaries. The best college seniors in the same disciplines, however, are now being offered virtually the same salary to enter business firms immediately upon graduation, according to the latest available College Placement Council survey, and among other new holders of the B.A. nationally, those in the top decile are being offered over \$15,000/yr. to enter government service. Under such circumstances, which can grow only less favorable to the profession with time unless far more realistic policies are instituted as to academic salaries, we cannot seriously

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Festival of Black Gospel Here This Weekend

The university's Fifth Annual Festival of Black Gospel will be held Feb. 6-8. The festival, sponsored by Cornell United Religious Work, is being held in conjunction with National Brotherhood Week and National Black History Month.

The festival will begin with a banquet at 5:30 p.m. Friday, Feb. 6, at the Women's Community Building, 100 W. Seneca St., and will conclude with a contemporary

Black church service at 11 a.m. Sunday, in Cornell's Sage Chapel.

Samuel Proctor, pastor, Abyssinian Baptist Church in New York City, and professor of education at Rutgers University, will be the speaker. His topic will be "The Search for Real Security."

The Thomas Family Musicians along with local and visiting choirs will provide music for the various events.

"Because it helps to tell the story of the Black experience in America, Black music in general and Black sacred music in particular are significant contributions to American history," said Eleanor Rice, chairperson of the festival committee and university registrar.

"The festival is not only to provide entertainment but to foster a greater understanding of Black sacred music as a cultural experience

and to provide greater appreciation for the differences in ethnic preferences," Rice said.

Tickets for the Feb. 6 banquet are available at Anabel Taylor Hall, the COSEP Office and the Office of the Dean of Students, both in Barnes Hall, and at Noyes Center. Tickets are \$5 each.

A choir workshop will be held from 1 to 5 p.m. Saturday, Feb. 7, in the chapel, Anabel Taylor Hall. Pat

Savage, director of the Curtis Chamber Singers, will conduct the workshop.

At 8 p.m. Saturday in Bailey Hall there will be a concert of spiritual music performed by the Curtis Chamber Singers and combined choirs. Rice described the concert as "A spiritual experience projecting the nature of music as performed in the contemporary Black church."

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hope to recruit into graduate study and thus into the profession our share of college seniors at the level of intellectual promise and achievement we require. Elementary prudence on the part of the seniors we wish to recruit will make them extremely cautious about incurring another five or six years of debt, perhaps up to or even beyond the \$25,000 the government now guarantees per student, when the eventual repayment of that debt, together quite possibly with the costs of an already growing family, must all be charged against a salary which — under present trends — will not suffice for many a holder of a fresh B.A. We shall one day look around for our successors and simply find they are not there.

2) A representative Cornell full-professorial salary today of \$30,000, when corrected to its real 1967 value by applying the Consumer Price Index (reset then at 100 and now in excess of 250), amounts to less than \$12,000, and less than the salary at that time of a new associate professor. At present it is difficult enough, for example, to send one's children to college on what a dozen years ago may have been an adequate salary for a second-level assistant professor, yet was even then hardly munificent, given our recent emergence from the first academic depression of the late 'forties and the 'fifties. But if present trends are not reversed, and full-professorial salaries decline still deeper into what once constituted the probationary range, more and more members whose families are now young will find that to meet their growing obligations they must divert ever-increasing amounts of time from the scholarly work which would normally carry their first priority and must turn instead to that work, whatever its priority, which will best eke out an insufficient salary. As for the effects on professorial pensions of the same process of erosion, President Emeritus Corson contributed a detailed study of "Inflation and the Retired Professor" to the March, 1979, issue of the Bulletin of the AAUP, Academe, the implications of which are especially troubling, if not alarming, for many of us who will have substantially smaller figures to use than those in the examples he gives.

These are some of the practical consequences for the profession of institutional apostasy, in which — according to the figures in today's report — Cornell has unhappily exercised the wrong sort of leadership, that of being on the downside of a downward trend. The proper such role of a leading university is of course to lead upward, not down; it is this new leadership that the Executive Committee now urges upon the University. Like the Committee on the Professional and Economic Status of the Faculty, this committee regrettably must direct its attention here primarily to the endowed division, given the organizational peculiarities of the University. It would point out, however, that to reduce the severe economic stress, due partly to deferred budgeting, that exists in the statutory division, substantial leverage can be found precisely in the combination of higher SUNY salaries and a new, more timely Cornell salaries policy for the endowed division: if when negotiating with Albany the University is in a position to argue that statutory salaries are in fact in a hole — that they are uniquely depressed according to both

applicable standards, public and private — and if the University gives those negotiations its very best shot, it should be able to make real headway with state officials who so well understand the effect of inflation upon personal income that they have recently acted to increase considerably their own salaries and expense-allowances.

If as a first step in exercising new leadership towards adequate faculty compensation, the University were to make the roughly 5% mid-year correction that might (as a conservative figure) restore our relative position among those faculties we consider our peers, we should receive some of the near-term help we need in an economy which displays, among others, the following features:

1) According to the study prepared here last May by the Office of Institutional Planning and Analysis, "Costs of Living at Peer Institutions," to which Professor Nation referred, Cornell stands disturbingly high in the list of cost-of-living indices, effectively outdone nationwide only by institutions in the Boston and New York metropolitan areas. Nor can we take great comfort in the some 15 to 18 points by which the indices for those areas exceed Ithaca's, for (like many areas which stand as far as 15 points below us on the CLI scale) those areas clearly offer, to other members of a professorial family who must supplement the family income, more favorable opportunities than does Ithaca for appropriate work with appropriate pay.

2) Food costs are expected to increase between 12% and 15% nationally in 1981, a good deal more than half that increase to come before July.

3) NYSEG has applied for an early increase of up to 30% in its rates. The Committee hastens to acknowledge that the University too must pay these spiraling energy costs; it looks to the University, however, and has thus far looked in vain, for the corresponding acknowledgment that the University Faculty must also be given the means to meet such horrendous inflation as this.

From any reading of the news, one can of course multiply these instances (the high cost of money, for example, warrants mention), but these few nevertheless clearly show what we face.

The Speaker said he didn't wish to interrupt Professor Levy, but stated that there is a mandatory 6 p.m. adjournment time and other business still remains to be conducted. Professor Levy said that he would finish as quickly as possible, and was sorry it took so much time and detailed material to establish the urgent need for a new policy with the care the Executive Committee considered appropriate to the issue. The Committee has also made careful inquiry to learn why the University last May set its income figures for 1980/81 — principally its tuition charges — at a level that we hear prevented it from making any real progress on faculty salaries. What apparently happened is this:

From November or December to May, it will be recalled, whenever any reference was made to these income figures here on campus, they were systematically qualified as being provisional. The material sent our prospective freshmen during that period, however, was not reworded from previous years so as to make this qualification clear. Be-

cause of this — one surely hopes — inadvertent administrative lapse, it was ultimately judged impossible to increase this semester's tuition at all above the supposedly only provisional figure, or to increase next semester's more than \$70 above it, despite sharply accelerating inflation, and despite the implicit acknowledgment in the Cornell Chronicle for 15 May, p. 1, that total student expenses at Cornell for 1980/81 would still trail those at a group of peer institutions by no less than \$300, this differential then ranging on up to and even beyond \$500 through the rest of that group, among which Cornell obviously remains deep in the cellar. The cost to the University of this single administrative lapse can thus be calculated at about a million dollars net, as sizeable in general order of magnitude as we understand was the total cost of the many problems with computer services which it is hoped are now all behind us, with that total cost reportedly having been written off. Neither ought the cost of the lapse here described be borne for longer than this past semester by the University Faculty. Instead, the mid-year adjustment should now be made which the AAUP Executive Committee has here urged upon the University as an immediate start on a more realistic and thus professionally responsible Cornell policy with regard to faculty compensation.

Professor Frederick M. Ahl, Classics, asked what the Committee included in their investigation of other compensation, i.e. the University of Texas now pays the full contribution to the faculty member's social security in addition to the mandatory one.

Professor Nation responded that that figure is taken from AAUP. It does factor in to some extent consideration of CCTS. It does include the contribution to fringe benefits made by the University and as reported to the AAUP.

Vice President for Research, W. Donald Cooke, said he doesn't think that is quite true. "There are some ground rules in the AAUP request for information that exclude some particular compensation or benefits that are not allowed to be reported. I understand that our tuition program is not allowed to be reported and there are other categories. So I think it's a mix of things."

Professor Ahl wished to add to the remarks by Professor Levy that the University make a very special effort to investigate what can be done for the mutual benefit of both faculty and administration in finding ways of implementing what the University of Texas did, adding the social security benefit to fringe benefits.

Professor Nation said last year the University did pick up the cost of health insurance. This was part of the Committee's investigation last year into picking up more fringe benefits, and to the extent that this can be done in an equitable fashion, this process will continue. Whether social security can be picked up is not obvious.

Professor Emeritus Arthur J. Pratt, Vegetable Crops, said as an Emeritus Professor the salary policy would not affect him one way or another, and didn't wish to add or subtract from either side. "I was thinking as I look through these figures, if I was offered a professorship based on these figures at Harvard and Columbia and Cornell, I'd go first to Cornell and look over the situation and see what was involved and then I would go to Harvard and check that over — the living conditions, the cost of rent and all, and then I would go to Columbia and look over the living conditions, the possible transportation conditions, and then I

would hurry right back to Cornell and hope nobody had sneaked in and got my job."

President Rhodes said he wasn't sure he should reply at all after that splendid affirmation. "I will be very brief because I know it's late and if I am briefer than is proper, then I hope you'll feel free later on to come and talk about these questions. I want to thank Professor Nation and his committee, first of all, not only for what I think is an accurate and very helpful report but also for the help they continue to give us on this question of faculty priorities. It was with their advice and consultation that we took up the cost of health insurance and I take Professor Ahl's point very seriously. We should look increasingly at picking up those non-taxable fringe benefits because that's a benefit. I want also to thank Professor Levy. He spoke with obviously great care and great feeling and very careful preparation. I appreciate all the effort that that represents. I also want to say that I agreed with both Professor Nation and Professor Levy that we are the victim of a two-fold slippage. One was a national decline in the purchasing power of faculty salaries and the other was a differential decline in our particular position at Cornell in comparison with other Ivy League members. That decline is real and it's painful. I do want to add, however, a brief word to what was said by Professor Nation and that is that although the figures are still tentative and preliminary, the MIT survey suggests that we have turned the corner, that we have indeed started to pick up the losses that we've been making. It's still tentative. There are a couple of universities that haven't yet reported but I believe that's started. The budget preparation is far more complex than I could possibly describe today and I'm sure that embedded within it there are administrative lapses of various kinds but the one that Professor Levy described at some length is not a lapse in a real sense but a question of keeping faith with students. There are two sides that reasonable people can take on this issue. Let me just comment on what the implications would be of what I understand Professor Levy to recommend which is a 5% mid-year correction. The cost of doing that and I calculated this very quickly, would be a million and a quarter dollars for the present academic year. We have a balanced budget this year and that balanced budget is very important to us in fund raising. I say that not just as a generality but as somebody who devotes more time than I care to to this business of encouraging people to give to us. And the first question with major donors of foundations and corporations concerns the balancing of the budget. If we throw the balance of the budget out, we have guaranteed that we shall fail with the outstanding success that we've had in the last few years with fund raising. Now why does that matter? The major single reason that we haven't kept pace with Harvard and Yale and Princeton is that at Harvard, endowment per student is 83K, Yale endowment per student is 59K, Princeton endowment per student is 78K, and Rochester endowment per student is 47K, whereas Cornell endowment per student is 24K. And that is the difference in the terms of the margin between tuition and salaries and our competitive position. You may say, well take it all off tuition. A one percent increase in tuition after we've taken out the financial aid that we need to give when we increase tuition produced 480K based on the present tuition levels. A one percent increase in salaries and fringe benefits — salaries

vs. tuition — for all teaching members not just professors, but for other teaching members costs us 575K. The only solution we have is to improve our endowment and to make whatever internal economies we can. We cannot simply add on indefinitely to tuition. We are level with Harvard now — \$6000 a year in tuition. So I respect the need, I understand the hardship. I'm aware that we've got to continue to make progress. Let me just say two things. One, I believe the early figures suggest we have started to haul ourselves back up that level. Second, we must maintain a balanced budget as the only method of moving into a competitive endowment position which is the basis of salaries. There's no such thing as University money. The money that we're talking about is money which is the basis for salaries. What we do pledge is to use our own best efforts in cooperation with Professor Nation's committee, in cooperation with the Faculty Committee on the Budget, in cooperation with the FCR, to make this the number one priority. That we promise you. We shall consult you as the budget develops and moves forward, and the reminders that you have given us today will not go unheeded. Thank you."

The Speaker said that at this point it was necessary to move on to the final item on the agenda and that the body would go into executive session. He asked that only FCR members remain in the room. He did request permission for the Recorder and Dean Emeritus Byron W. Saunders to be permitted to remain. It was so moved and seconded.

The Chair called on Professor Emeritus Byron W. Saunders, member of the Committee on Nominations and Elections, for a motion.

3. EXTENSION OF THE TERM OF THE DEAN OF THE FACULTY

Professor Emeritus Byron W. Saunders, Operations Research and Industrial Engineering, said that the Bylaws of the University Faculty in the selection of a Dean call for a certain procedure to be followed. "In the event that a Dean is currently on board and has not fulfilled a full five years in his term, by vote of the FCR he can be continued for up to two additional years. Inasmuch as Professor Greisen has served for only three years, he is still eligible for two additional years. He has indicated that he wishes to continue — his health condition being the one dominant factor in this final decision. It is, therefore, up to the FCR to decide whether or not they wish to have him continue. The Committee on Nominations could think of no reason whatsoever why he should not be invited to continue. It certainly will set no precedents. Since World War II we have had several deans, one of whom served for seven years, two for four and a half, and three for three years. So there is no consistent pattern. I was the last dean prior to Professor Greisen, and just exactly four years ago today the Faculty invited me to stay for an additional year. I would like to offer the same opportunity to Professor Greisen, and on behalf of the Committee on Nominations, who proposed this resolution, I would move:

RESOLVED, That the term of Kenneth Greisen, who has served so capably and conscientiously as Dean of the Faculty, shall be extended to include the 1981-82 academic year.

The Chair indicated that this motion came from a Committee and therefore did not need a second. There being no discussion, the vote was taken and the resolution carried unanimously.

There being no further business, the meeting was adjourned at 6:00 p.m.

Joseph B. Bugliari
Secretary of the Faculty

Summary Journal of January Trustees' Meeting

The following summary journal of meetings of the Board of Trustees Jan 22-24 in New York City, as released for publication, does not include confidential items which came before the meeting or items on which separate articles are carried in this edition of The Chronicle.

Actions and reports of the Executive Committee included the following:

1. A report of President Frank Rhodes.
2. A report of the establishment of the Charles C. Rife Fund for the eventual

benefit of the College of Veterinary Medicine.

3. The committee heard a report of the name change of the Cornell Feline Research Laboratory at the College of Veterinary Medicine to the Cornell Feline Health Center to describe more accurately the purpose of the program and its relationship to the public it serves.

4. Minutes of the Executive Committee of Dec. 9, 1980 were approved.

5. The committee heard a report on the establishment of new funds for the endowed colleges at Ithaca and the Medical College.

6. A recommendation was approved changing the meeting of the Executive Committee scheduled on April 28, 1981 to Tuesday, May 5, 1981.

7. The Executive Committee confirmed Treasurer Robert T. Horn's vote of the university's stock at the annual meeting of the stockholders of Cornell University Press, Ltd. on Oct. 3, 1980, electing the following individuals as directors for terms expiring with the next annual meeting of the Cornell University Press, Ltd. in the fall of 1981: George A. Hildebrand, Robert T. Horn, Roger Howley, Larry I. Palmer, Don M. Randel.

Actions of the full board include the following:

1. President Frank Rhodes reported on matters of interest at the university.

2. The board heard a presentation documenting the success of past energy management efforts at Cornell and discussing goals for the immediate future as result of trustee action in 1976 creating the energy conservation action plan.

3. The board heard a report from Professor Edward D. Wolf, director of the National Research and Resource Facility for Submicron Structures on

some of the science, engineering and technologies of sub micro-meter structures and reporting of the facility.

4. The trustees heard a presentation illustrating Cornell's presence in New York City through the New York City Cooperative Extension Program, the Industrial and Labor Relations Extension Program, and field study.

5. The annual report of the Investment Committee was received.

6. The annual report of the Audit Committee was received.

7. The chairman of the Executive Committee reported from the open sessions of the Executive Committee meetings.

8. The board heard a report of the Cornell Fund and The Tower Club.

9. The trustees heard a report of gifts received through Dec. 31, 1980.

10. The trustees received reports of the following deaths: John M. McManus, Associate Dean, College of Engineering, Oct. 3, 1980; Bernard V. Travis, Professor of Medical Entomology and Parasitology, Oct. 12, 1980; Harold E. Moore, Jr., Liberty Hyde Bailey Professor of Botany, Oct. 17, 1980; Robert H. Whitaker, Charles A. Alexander Professor of Biological Sciences, Oct. 20, 1980; James Hutton, Kappa Alpha Professor of Classics, Emeritus, on Oct. 29, 1980; Raymond M. Cantwell, Associate Professor,

Hotel Administration, Nov. 11, 1980; Harry Caplan, Goldwin Smith Professor of Classics, Emeritus, Nov. 29, 1980; John I. Miller, Emeritus, Professor of Animal Science, Dec. 8, 1980; William M. Sale, Jr., Goldwin Smith Professor of English Literature, Emeritus, Jan. 7, 1981. And of the resignation of Donald R. Price and George W. Sellek in the College of Agriculture and Life Sciences.

11. Bernard W. Potter was elected to the Trustee Committee on Land Grant and Statutory Affairs.

12. Minutes of the Board of Trustees meeting held Oct. 17, 18, 19, 1980 were approved and minutes of the Executive Committee meetings held Dec. 9, Oct. 16 and Nov. 11, 1980 were ratified and confirmed.

13. The trustees received a report of actions taken by the Executive Committee at meetings held Nov. 11, Dec. 9, 1980 and Jan. 22, 1981.

14. The trustees heard a discussion of the importance of centers, institutes, laboratories and programs at Cornell and their contributions to society.

15. The president was authorized to confer degrees at the end of appropriate periods in January, May and August upon candidates who will have fulfilled all necessary requirements, all in accordance with recommendations of the respective faculties.

Brief Reports

Several Openings In Sailing Classes

There are several openings available to faculty, staff and students in the spring semester's "Principles of Sailing" and "Intermediate Sailing," courses offered through the Department of Physical Education.

"Principles of Sailing" meets Thursdays or Fridays from 5 p.m. to 7 p.m. beginning Feb. 26. "Intermediate Sailing" meets on Tuesdays, 5 p.m. to 7 p.m. beginning Feb. 24.

There is a \$75 fee for the programs. Registration and more information are available at Teagle Hall, Monday, Feb. 9, 1 to 5 p.m.

Keeton Fund Gets A Matching Gift

Former Director of the Division of Biological Sciences, Professor Emeritus Robert S. Morison, and his wife have donated a matching gift of \$25,000 towards the establishment of a Professorship in Biological Sciences named for William T. Keeton. The Morison gift must be matched with gifts provided from the faculty and staff, including emeriti and retirees.

Professor Keeton, who was well-known as a teacher of introductory biology, textbook writer, authority on bird orientation and university administrator, died suddenly last autumn. In recognition of his many contributions to Cornell University the Board of Trustees has authorized the solicitation of funds to support a Professorship in Biological Sciences named in his memory.

Woodchuck Is Model In Disease Studies

A \$1.2 million contract from the National Institutes of Health will enable the College of Veterinary Medicine to develop the common woodchuck as a model in new studies of human diseases, including hepatitis, atherosclerosis and cancer of the liver.

With collaborators from the veterinary college, the Cornell Medical College and the Rachelwood Wildlife Research Preserve, the recently-formed Cornell Woodchuck Research Group will establish a breeding colony of woodchucks capable of producing 100 young a year.

The problem with woodchucks taken from the wild, according to Dr. Bud C. Tennant, professor of comparative gastroenterology at the veterinary college and principal investigator in the new project, is that the genetic and medical history of the animals is unknown, which

only adds confusing variables to already complex investigations.

Woodchucks raised in the Cornell breeding colony will be free of known diseases and will have clear genetic and biological histories. "There has never been a source of woodchucks for the intensive kinds of research now being proposed," Dr. Tennant notes. "We hope to change that."

Straight to Offer Guitar Lessons

The Willard Straight Hall Board will offer beginning and intermediate group folk guitar lessons on Tuesday nights beginning Feb. 10 in the International Lounge, Willard Straight Hall. Phil Shapiro will conduct the lessons.

The beginners' class will be at 7 p.m. It is designed for those who have no knowledge of guitar playing. The intermediate class will be at 8 p.m. and is designed for those who know how to play, but would like to play better.

Participants are expected to furnish their own guitar. Cost for either course is \$18 for eight lessons, payable at the first lesson. Registration will take place at the first class.

Fine Art Series, Lectures Slated

The Cornell Campus Club will be sponsoring a Fine Art Series and two lectures this spring. All events are free and open to the public.

The Fine Art Series will be held from 10 to 11 a.m. at the Johnson Museum. The museum will open at 9:30 a.m. the days of the lectures to enable participants to view the exhibits which will be discussed.

The schedule for the Fine Art Series is:

Feb. 5, "Twentieth Century Art from the Cramer Collection," Wendy Owens, assistant curator;

Feb. 12, "Frederick Sommer at 75," Barbara Blackwell, assistant to the curator of prints;

Feb. 19, "The Shadow World of Javanese Puppets," Susan Shedd, graduate assistant, and

Feb. 26, "A Major New Direction in American Abstract Painting," Tom Leavitt, director of the museum.

The schedule for the lecture series is:

March 19, "New Dates from Old Trees," Peter Kuniholm, curator of classical antiquities, 12:30-1:45 p.m. Hagan Room, College of Veterinary Medicine, and

April 16, "Famous Women of the Finger Lakes Region," Lois O'Connor, area historian, 10-11 a.m. Hagan Room, College of Veterinary Medicine.

Creative Arts Council Gives Awards to 20 Students and Staff

Grants totaling \$4,170 have been awarded by the Council of the Creative and Performing Arts to 20 students and staff.

The grants are awarded on the basis of artistic ability and merit of the project itself. They are meant to encourage creative and performing artists to propose and produce extracurricular art projects for performance or exhibition and they are to be completed and exhibited or performed within the next 12 months.

The artists and projects receiving the grants are:

In music: Garth Drozin, graduate student in music, \$150 for copying costs of his composition, "The Theology of War;" Joshua Fried, senior in the College of Arts and Sciences, \$200 to produce his own electronic/taped composition.

Film: Susan Felleman, senior in

art history, \$250; Susan Goldstein, junior in the College of Arts and Sciences, \$200; Matthew Jones, senior in government, \$200.

Photography awards went to three seniors in fine arts—George Atkins, \$250; Geoffrey Bower, \$250, and Nanci Kahn, \$280. Other awards went to Warren A. James, senior in architecture, \$85, and Maura Johnson, graduate student in preservation planning, \$100.

Art awards went to fine arts seniors Caren Friedman, \$250 to do lithographic portraits, and Evelyn Hitchcock, \$100 for a printmaking project; to Ken Januski, graduate student in fine arts, \$130 to do charcoal portraits on ragboard; Judith Margolis, Learning Web staff member, \$300 to make paintings and drawings on "Sleeping Beauty;" and to MFA candidates John E. Towns, \$200 to do a painting and

sculpture project, and Alex Wisniewski, \$300 for an exhibition creating a kinetic environment.

Creative writing awards for publication of poetry were \$75 to Andrea Masters, senior majoring in English, and \$300 to David McCann, Foundation Relations staff member.

Theatre Arts graduate student Joseph P. Daly received \$350 to aid in the Risley production of his own play, "The Druggist of Daytona Beach."

Landscape architecture graduate students Linda Cook, Elizabeth Dean, Scott McCormican and Michael Stasis received \$200 for a memorial design project.

Applications for projects to be completed in the 1981-82 academic year will be available in the spring. Information about the grants may be obtained from Anna Geske in the Andrew D. White House.

New Trustees Are Appointed

John S. Dyson, chairman of the Power Authority of New York state, and Meyer S. Frucher, Industrial Commissioner of New York state, are new members of the university

Board of Trustees, pending confirmation by the State Senate.

Announcement of the appointments was made to the board during its January meeting in New York City. Under its Land Grant Charter, Cornell has provisions for representation on its sixty-two member board from both the private and public sectors.

Appointed by Governor Hugh Carey, Dyson replaces Trustee Emeritus Morton Adams, a member of the board from 1965 to 1980. Dyson will serve through June 30, 1985.

Recently appointed Industrial Commissioner by Governor Carey, Frucher is automatically an ex-officio member of the trustees as is

the state's Lieutenant Governor and several other state officials.

Dyson was an ex-officio Cornell trustee while he was commissioner of agriculture and markets and commissioner of commerce of the state. He has been a member of the advisory councils for the New York State School of Industrial and Labor Relations and the New York State College of Veterinary Medicine at Cornell. In addition to a B.S. degree received from the New York State College of Agriculture and Life Sciences at Cornell in 1965, Dyson holds a M.P.A. degree from Princeton University. His home is in Millbrook.

Industrial Commissioner since Jan. 1, Frucher had been director of the Governor's Office of Employee Relations since 1978. From 1975 to 1978 he was executive director of the New York State Commission on Management and Productivity.

Frucher graduated from Columbia University and the John F. Kennedy School of Government at Harvard University. He lives in Albany.

As the newly elected president of the New York State Agricultural Society, Bernard W. Potter, Ag. '43, of Truxton is an ex-officio member of the Board of Trustees. He succeeds Charles Riley who served on the board for five years, having been re-elected president of the agricultural society annually during that period.

Brief Reports

Resident Advisers Wanted For Year

The Department of Residence Life will conduct information sessions for students who are interested in becoming resident advisers at 7 p.m. today and Monday. Today's session will be in 202 Uris Hall, Monday's will be in the Main Lounge, University Hall No. 1.

"The resident adviser positions offer a uniquely challenging, highly rewarding and very satisfying opportunity for students to serve their peers and, at the same time, gain a variety of skills that will enhance their chances for success in today's tight job market," said Ronald J. Kaussner, residence hall director.

Full-time registered graduate and undergraduate students who are in good academic standing and who have good interpersonal skills are invited to attend one of the two sessions. Applications will be available at these sessions only. Remuneration includes a single room and stipend. Freshmen are not eligible.

President's Breakfast Dates Are Still Open

Students interested in having breakfast with President Frank Rhodes are reminded to call his office at 256-5201 to make a reservation.

The breakfasts are a continuation of a program which began three semesters ago. They will be held approximately every other week from 7:30 to 8:30 a.m. throughout the semester in the Elmhurst Room, Willard Straight Mall. Each breakfast will involve approximately 15 students.

Those who sign up will be reminded by mail a few days ahead of time.

NetWorking Quiz Had Wrong Answer

A question and answer in a quiz that was part of NetWorking, newsletter by and for employees in the Jan. 22 issue, was incorrect. A line was inadvertently dropped by the NetWorking staff in typing up the pages.

The question was: The TIAA/CREF Tax Deferred Annuity Plan (SRA) is open to: and the correct answer should have been "C—All Employees." instead of the "C" answer that was typed, "Executive staff only."

The NetWorking Editorial Board apologizes for the mistake.

Chapter Offers Research Prize

The Alpha Chapter of Sigma Delta Epsilon, Graduate Women in Science, is offering a \$150 award to the female student at Cornell or Ithaca College who has completed a scientific research project of high quality and can best present her results to an audience.

GWIS will select the five most outstanding applications from abstracts of the completed research submitted by March 15. Those chosen will be asked to give a 10-minute paper on the research results at an open meeting of GWIS in early May. The data presented should be unpublished or have been

submitted for publication.

The winner will be selected on the basis of the originality of her idea, the clarity with which she presents her data both in abstract and in oral form and on her ability to field questions from the audience.

It is anticipated that most applicants will be graduate students who are approaching the completion of their thesis research. However, less advanced students who have accumulated sufficient data to make a coherent presentation may also apply.

Application forms and more information on the competition can be obtained from Ruth Alscher-Herman, president of the Alpha Chapter of GWIS, Boyce Thompson Institute (257-2030) or from Betty A. Lewis, N116 Martha Van Rensselaer Hall (256-4519).

Distribution Center Offers Materials

More than 2,500 consumer, agricultural, and youth publications and audiovisuals, produced by faculty and staff at Cornell University and others, are available to the public through the new Distribution Center in Ithaca.

These educational and informational materials cover a wide range of topics including energy, inflation, food production, cooking, nutrition, ecology, horse care, photography, landscaping, decorating, flower arranging, sewing, farming, health, child development and other Cornell Cooperative Extension program areas.

The publications, listed in "The Know How Catalog," can be obtained free by writing to: Cornell Distribution Center, 7 Research Park, Ithaca, NY 14850. The audiovisuals are listed in "The Audio-Visual Catalog" which can be obtained by sending \$2 to: Cornell Audio-Visual Resources Center, 8 Research Park, Ithaca, NY 14850. Make checks payable to Cornell University.

Also available is a preview room which makes it possible to preview motion pictures and radio, slide and videotape programs. These are available from the center on a rental, purchase or free-loan basis.

Community Policies Conference Topic

Heightening the awareness of community policies and processes will be the theme of the fifth annual Social Trends and Outlook Conference, slated for Feb. 25-26 at the Sheraton Inn Conference Center.

Sponsored primarily by the State College of Agriculture and Life Sciences at Cornell and Cornell Cooperative Extension with the assistance of the State College of Human Ecology, the department of city and regional planning at Cornell, and the Upstate New York Chapter of the American Planning Association, the conference will feature a series of workshops focusing on the use and usefulness of the 1980 census information, the limits of benevolence of local governments, and social impact assessments and their effects on community change.

For information and registration, contact Professor Paul Eberts, Conference Coordinator, Department of Rural Sociology.

Pollock Product Is Test-Marketed

Cornell's newest fish product, fully cooked and canned pollock without bones or skin, is being test marketed in a 12-week market study under way in Ithaca.

The product, called "Pollock—Chunk Style," is sold in seven-ounce cans for 69 cents during the market study, which began on Jan. 19 and is expected to continue until early April. Four P&C and IGA stores in town are carrying the item.

The canned pollock was developed by Robert C. Baker and his laboratory staff, June M. Darfler, Emma Mulnix, and Donna Kline, all in the department of poultry and avian sciences of the College of Agriculture and Life Sciences. Baker is chairman of the department.

The new fish product is a ready-to-eat item that can be used in most recipes calling for tuna. It consists of white chunks without bones or skin, and has a mild flavor and flaky texture. Says Baker: "Canned pollock is our first fish product that does not use minced fish."

Other ingredients used are corn oil (5 percent) and a small amount of salt. The protein content of the canned pollock is 22 percent, with fat levels of only 0.5 percent, exclusive of the added corn oil. Unlike canned salmon which contains as much as 30 percent juice, the canned pollock has little juice, Baker notes.

Wilderness Courses Are Being Offered

The Department of Physical Education and Athletics, in conjunction with Wilderness Reflections, is offering courses in backpacking, flat- and white-water canoeing, rock and ice climbing and winter camping. Registration is open to all students, faculty, staff and their families.

Classes will meet a few evenings during the semester ending with a full weekend outing to a local wilderness area.

Course instructors are experienced in their particular subject areas and have participated in programs such as Outward Bound and the National Outdoor Leadership School. Safety, experiential education and minimum impact camping will be emphasized.

Course fees range from \$35 to \$110 for students and Teagle or Helen Newman Privilege Card Holders. Registration is at the Physical Education Office, Teagle Hall, 256-4286. Registration will continue until courses are filled.

Memorial Fund To Honor Alumnus

A memorial award fund has been established at the State College of Agriculture and Life Sciences to pay tribute to the late Cornell alumnus, Alan J. Westheimer, who died recently.

Westheimer, a 1977 graduate of Cornell, majored in vegetable crops. He was associated with his father at Schoharie Farms in Schoharie, New York, until the time of his death. He was the son of Mr. and Mrs. Paul Westheimer of Schoharie.

The endowment fund will be used to support a student belonging to the

Alpha Gamma Rho fraternity, of which Westheimer was a member, to defray travel and other expenses in Israel for a semester at an agricultural school or a kibbutz, a collective farm community. Westheimer had spent two winters on an Israeli kibbutz.

Vet Circle Plans Valentine Ball

The third annual Valentine Ball, sponsored by the Veterinary Circle, student auxiliary and administration, will be held Saturday, Feb. 14, at the Sheraton Inn Ballroom. It is open to all university staff.

A buffet dinner will be followed by dancing to the music of the Eddie Moore Band. Proceeds will go to the student auxiliary and the student assistance fund. For advanced reservation tickets and information call Mrs. Bruce Calmek 257-4172, Mrs. Francis Drazek 844-8073 or Mrs. Wolfgang Sack 272-2860.

World Course To Be Given

"America and World Community," an interdisciplinary, team-taught course, is being offered this spring. Faculty from the government, biology, sociology, economic, natural resources and English departments will participate.

Guest lecturers from the United Nations, the Institute for World Order and Hebrew University will also be featured.

Lectures will be held from 7:30 to 9 p.m. every Monday and Wednesday in the One World Room, Anabel Taylor Hall.

Registration is open to students and non-students. Students wishing to take the course for credit must register under Government 402 or Agricultural Orientation 402. For further information contact Robert Beggs, Cornell United Religious Work, 256-4684.

Safety Is Seeking Bad Check Victims

If you have one of the more than \$8,000 in bad checks issued in the Tompkins County area last fall under the name of Ezequiel Cabellero, Jr., the Department of Public Safety would like to know.

Call Investigator Barton Ingersoll, at 256-7404.

Cabellero, who was registered as an extramural student at Cornell, spent September, October and part of November in the area, allegedly issuing bad checks on The First National Bank of Ithaca and The First National Bank of Weslaco in Weslaco, Texas, the 24-year old part-time student's hometown, according to safety.

Cabellero was committed to Tompkins County Jail last Thursday on \$10,000 cash bail after being extradited from Mesa, Ariz.

He is wanted in a number of other states, from Massachusetts to California, for issuing bad checks with student I.D.s from various universities and colleges, according to Public Safety.

He registered at Cornell in September for a course in biology but apparently never attended a class. His \$591 bill is still outstanding, according to university records.

Pot Shop Lists Spring Courses

Beginning and intermediate throwing, kiln building and Raku are being offered this term by the Willard Straight Hall Pot Shop.

Beginning throwing will be held Feb. 9-March 20 at various times and days. Cost for Cornell students is \$40; non-students, \$45.

Participants in the kiln building course will help the Craftshop staff construct two Raku kilns and a large soft brick kiln. All aspects of high fire reduction kiln building will be discussed and participants will receive hands-on experience. Kiln building will be done during March at times to be arranged. There will be no charge to participants.

Intermediate throwing will be held on Fridays Feb. 13-March 20. Participants will meet one evening a week to explore the more esthetic aspects of functional wheel-thrown pottery. During the week students will work independently throwing teapots, casseroles, dinner sets and other projects to be evaluated in class. Cost is \$25 for Cornell Students; \$30 for non-students.

Raku, an oriental method of fast firing, will be held Feb. 13-March 20 at times to be arranged. Participants should be able to throw and have an intense desire to learn the ways of firing Raku. Cost is \$25 for Cornell students; \$30 for non-students.

For further information, call 256-5170.

Booklet Announces Prizes for Students

A revised booklet announcing thousands of dollars in academic prizes open to undergraduate and graduate students here has recently been published.

Titled, "Prize Competitions," copies may be obtained at the Office of the Dean of Faculty, 315 Day Hall. In addition, copies are available for perusal at the Reference Desks of all libraries on campus and at the Information Referral Center in the main entrance of Day Hall.

The booklet contains the names of 201 regularly established prizes. Some of the competitions are open to students in more than one academic division of the university, others are restricted to students in a specific college, school, or department.

Prizes, as distinguished from awards administered by the Office of Financial Aid, are awarded strictly on the basis of merit in open competition, without regard to need. The supervision of prize awards is the responsibility of the University Faculty, but details are commonly attended to by the academic department to which each prize is most closely related.

The booklet contains entry details for each prize.

William Sale

A memorial service for William M. Sale Jr. is scheduled for 4 p.m. Monday, Feb. 9, in Sage Chapel. Sale, the Goldwin Smith Professor of English Literature, Emeritus, died Jan. 7 at the age of 81. (See Chronicle story, page 8, Jan. 22.)