



Registration Begins Will Run for Two Days

The schedule for registration (to be held in Barton Hall) for new, continuing and rejoining students is as follows:

Thursday, Jan. 17 8 a.m. to noon - Arts and Sciences, Engineering, Human Ecology and Industrial and Labor Relations; 1 to 5 p.m. - Arts and Sciences, Engineering, Human Ecology and Architecture, Art and Planning.

Friday, Jan. 18 8 a.m. to noon - Agriculture and Life Sciences, Graduate School and Hotel; 1 to 5 p.m. Agriculture and Life Sciences, Graduate School, Business and Public Administration, Unclassified and the Law School.

Veterinary Medicine students are scheduled to register from 8 a.m. to 12:30 p.m. on Friday, Jan. 18, in D-105 Schurman Hall.

A postcard informing all continuing students, except Veterinary Medicine students, was mailed Nov. 26 to the students' local address. The postcard is the student's admittance ticket to registration. New and rejoining students were notified

by mail on Jan. 8.

The Course Exchange will be held at Barton Hall from 8:15 a.m. to noon, Saturday, Jan. 19. The following colleges will be participating: Agriculture and Life Sciences, Arts and Sciences and Industrial and Labor Relations. Admittance by ticket only. Students are urged to register on their scheduled dates and times in order to take advantage of the Course Exchange.

Late registration will be held from 8:30 a.m. to 4 p.m. Monday, Jan. 21 and Tuesday, Jan. 22, in Barton Hall. A late processing fee of \$10 will be assessed.

For students who do not want the University to release their address and telephone numbers, "exclusion list" will be available for them to sign. The list will be found at a table which will be located at the exit of Barton Hall during registration.

If bad weather causes the University to close on either Thursday or Friday, the students in colleges scheduled to register on the day the University is closed would register

on Saturday, Jan. 19, in Barton Hall. If both registration days are canceled, registration will be on Jan. 19 and 20. If the University closes either of those two days, the course exchange would be canceled.

Physical Education enrollment for men and women will be 8 a.m.-noon and 1-5 p.m. Thursday and Friday and 8 a.m. to noon Saturday in Teagle Hall.

All Co-op members wishing to pick up new bonus cards and new membership sign ups should go to the Stone Palace at Willard Straight Hall on Jan. 16, 17 and 18 from 8 a.m. to 5 p.m.

New students will automatically be enrolled in the Student Accident and Health Insurance Plan. Students who do not want to be enrolled in the plan must sign a waiver and return it to the Student Insurance Office in Gannett Clinic no later than Jan. 25. Any student who has not received the information should contact Mary Little, 256-6363.

Orientation Program Underway Some 580 New Students Take Part

An extensive orientation program is underway this week for approximately 580 new Cornell students. Activities began on Tuesday and will continue through Jan. 23. Programs range from study skills workshops to a jogging tour of campus and a cake building contest.

Some 360 of the new students are undergraduate transfers from other institutions. There are also approximately 90 freshmen and 134 graduate students.

"This is the time for the new students to become acquainted with Cornell and its environs," said Sandy Stein, assistant dean of students. "The events scheduled are intended to address the various academic, social and cultural needs of our new students."

Today, in the North Room of Willard Straight Hall, and again on Friday in the Second Floor Lounge at North Campus Union, a workshop, "A Transfer's Adjustment to Cornell," will be presented at 10:30 a.m. At 2 p.m. today there will be a Study Skills/Time Management

Workshop in the North Room of Willard Straight. Another study skills workshop on note-taking is scheduled at 2 p.m. Wednesday, Jan. 23, also in the North Room.

Tonight, "Cornell Night," billed as "a humorous slide presentation," is scheduled for 7:30 in 120 Ives Hall, followed by a faculty/staff/student reception at 8:30 in the Industrial and Labor Relations Conference Center. Later, there will be ice skating at Lynah Rink.

Specials

An eight-page pullout section on the Summer Session program for this year will be found in the middle of today's edition of Chronicle.

Also in today's issue is a statement to the community by President Rhodes on Affirmative Action, on Page 5, and the Bulletin of the Faculty on Page 18.

The President's Reception is at 3:30-5:30 p.m. tomorrow in the Big Red Barn and at 5:30 p.m. transfer students are invited to attend a "Transfer T-Shirt Happy Hour" in the Thirsty Bear Tavern at North Campus Union. Those attending are encouraged to wear a t-shirt from their old school.

On Saturday evening at 7, there will be a Transfer Center wine and cheese party in the Dickson Piano Lounge. The Transfer Center is, according to Stein, a special living unit within Dickson. The membership consists of 48 transfer students, an equal number of men and women, who "are there to give support to one another and help transfer students, on and off campus, adjust to life at Cornell."

On Sunday, there will be various religious services in the morning and, for football enthusiasts, there will be a pre-superbowl bagel brunch in the Dickson TV Lounge starting at noon.

On Monday and Tuesday, Jan.

(Continued on Page 20)

A Different Role for 500 Frisbees

There is a treasure of 500 iridescent orange frisbees at the University, kept from their mission as they lie motionless under tons of coal and a six-inch layer of dirt.

As if to pay for the capricious swoops and dips of their flying brethren, they have been condemned for eternity to the black depths of the University heating plant's coal pile.

Why? Ironically because of the same qualities that help them fly

and slip through the boundless air. The dirt, coal dust and drainage sludge do not adhere to their superslick and aerodynamic surfaces.

They have been placed at the bottom of the coal pile as a warning signal to the operators of the huge coal loaders to prevent them from penetrating the water impervious clay floor at the bottom, of the 300-by-150-foot coal-storage area.

The clay serves as a sealant to prevent rain water which becomes

highly acidic as it drains through the coal pile from seeping into the earth and eventually into Cascadilla creek, and potential environmental damage. The drain water is captured from the clay floor, diluted, neutralized and discharged into the city sewer system.

When the loaders reach the bottom of the pile and dig too deep, the unearthed frisbees flash their warning, and the protective clay layer is spared.

The Semester That Was: This was the scene at Barton Hall as last semester came to a close. Today, the scene will be registration for the new term.

Council Passes 'Security' Resolutions

Alleged Attack Prompts Two Actions

The alleged attack of a Cornell coed in her dorm room by a man claiming to be from "Cornell Security" has prompted the Campus Council to pass two related resolutions.

At its meeting of Dec. 13 the council voted to recommend "...that the Department of Public Safety...take the initiative to present their identification where possible," an action which would help diminish the possibility of imposters gaining illegal access to dorm rooms. Also, the Residence Life Committee was directed by the council to ensure that the phone

number of Public Safety is on all dorm telephones and to investigate the cost and effectiveness of installing "peepholes" in all on-campus dormitory room or apartment doors.

In other action taken, the council recommended that the temporary extended hour of the Blue Light Bus Service, which was started last semester, be continued through this semester and that the program be monitored and entered into the Transportation Department New Program requests for 1980-81.

In response to a proposal for the establishment of a West Campus

Campus Council

Bus Service, the council recommended implementation of the service beginning Jan. 21 and continuing through March 15. (See related story on this page.)

After a discussion concerning policy-making authority of the various Campus Council standing committees, specifically, in this instance, a CAMPOLL survey to be conducted by the Committee on Dining Services, the council passed the following resolution: "The Cam-

pus Council advises the Dining Services Committee to establish a policy for a system of community surveys within Dining customers and request funds from the Department of Dining Services to implement it." The council also requested that the Internal Operations Committee examine the mechanism for facilitating and coordinating a system of community surveys and seeking community input.

The Sage Chapel Study Committee, established last spring to "evaluate the current program, structure, funding and effectiveness of Sage Chapel and to make recommendations as to its future," presented its final report.

Among the recommendations

made by the committee are: the establishment of a 12-member Sage Chapel Council and a Sage Chapel coordinator; that the first Sunday in each month be designated for the appearance of the Dean Sage Speakers and that those services begin at 12:15 p.m. Other Sage Chapel services would continue to be at 11 a.m.

The report, which must be approved by President Rhodes before implementation of any recommendations, was endorsed by the Campus Council. However, the council did not endorse any particular funding mechanism needed to implement any of the recommendations.

The meeting scheduled for the Campus Council for this semester is: Jan. 24; Feb. 14, 21, 28; March 13, 27; April 10, 24; May 8, 15. All Campus Council meetings are at 4:45 p.m. in 701 Clark Hall and are open to the public.

Transportation Increases Services

Bus Services Are Extended

The Office of Transportation Services will increase several of its services to the campus community this semester, according to William E. Wendt, director of transportation. Following recent recommendations by the Campus Council, the

Blue Light evening service will be extended one hour and West Campus students will have access to central campus by bus in the mornings.

The Blue Light route provides free service from central campus to the dormitory areas for students

who use the libraries in the evenings. The service begins at 6:30 p.m. Monday through Friday and runs at approximately 20 minute intervals. The last run will begin at midnight to correspond with library closings.

The Blue Light route begins at the Dairy Bar, stopping at Plant Science, the corners of Tower Road and Garden Avenue, Tower Road and East Avenue, Clark Hall, Balch Hall, Donlon Circle, North Campus 7, the A-lot entrance, the corner of Jessup and Triphammer Roads, the Risley dormitory area, Baker Flagpole, Carpenter Hall, Uris Hall, the corner of Tower Road and Garden Avenue, and the Plant Science bus stop.

The West Campus dormitory area will now be served by a run in the mornings only during the winter months to take students to the central campus area. The service is presently scheduled to begin on Monday, Jan. 21, and end on Friday, March 14, with the beginning of Spring Break. The route runs at 10-minute intervals from Baker Flagpole to Carpenter Hall, the corners of Tower Road and Garden Avenue, Tower Road and East Avenue, and Clark Hall. The service covers the peak travel hours between 7:40 a.m. and 10:05 a.m., Monday through Friday.

Comment

Editor

In a recent newsletter from ACE (Active Concerned Employees), the following statement was printed:

"Cornell wanted to charge us for parking in the A & B Lots. ACE objected and we won. Employees park in those lots for free."

The Committee on Transportation Services of the Campus Council disagrees with this statement. Discussion of possibly charging employees for A & B Lot parking arose while reviewing the "Comprehensive Parking and Transportation Program for the '80s", as a means of increasing revenues to help cover the cost of Transportation Services at Cornell. Although it was discussed, the committee did not consider any proposal for charging employees for A & B parking and has no plans of considering any such proposal. I have appeared before the ACE group and also the Employee Trustee sponsored brown bag luncheons to assure employees that such a policy is not being considered by the committee.

Ron B. Parks
Chairman, COTS

Editor,

Ace is an employee organization with a mailing list of over 500 Cornell employees. Ace distributes information on employee issues and

when response to some issues indicate a strong concern ACE then takes a position and presents it to the administration and other appropriate groups for consideration.

Through that process ACE has a position on transportation that opposes charging for parking in A & B lots or charging employees for bus service on campus. We plan to continue to pursue that position.

Mr. Parks' letter makes it clear that paid parking was under discussion. Ace made the plan for paid parking in A & B lots public early enough that strong negative employee reaction helped the administration change its mind for the present.

Ace does not wish to take all the credit for defeating the A & B lot paid parking issue. It takes cooperation from many groups for us to accomplish our goal for a better quality of life with dignity for employees. The Committee on Transportation deserves much credit, but lets not deny Ace its fair share of the credit also.

Employees are concerned that Cornell is planning to increase the fees for parking permits. What is the Committee on Transportation's position on this issue? Do they oppose any increase in the parking permit fees?

Catherine Valentino
For ACE

Cornell Chronicle

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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.

Clerical

Admin. Aide, GR21 (NYSSILR-NYC)
Admin. Aide, GR21 (Arch, Art, Planning)
Secretary, GR19 (H.D.&F.S.)
Secretary, GR19 (Ag. Eng.)
Word Proc. Op., GR18 (B&PA)
Secretary, GR18 (Chemistry)
Accts. Cler., GR18 (Public Affairs Reg. Offcs.)
Secretary, GR18 (STS Program)
Stat. Clerk IV, NP-10 (Vet. College)
Secretary, GR17 (Poultry Science)
Lib. Aide, GR17 (U. Libs., Catalog, Olin)
Lib. Aide, GR16 (U. Libs., Serials Dept. Olin Lob.)

Jobs

Clerk III, NP-7 (NYSSILR)
CRT Oper. I, NP-4 (Animal Science) Service & Maintenance
Cook, GR21 (Dining Svcs.)
Cook, GR18 (Dining Svcs.)
Material Handler, GR18 (Dining Svcs.)
Food Service Worker, GR17 (Dining Svcs.)
Dishmachine Operator, GR16 (Dining Svcs.)
Custodian, GR16 (Dining Svcs.)
Cashier, GR15 (Dining Svcs.)
Food Service Worker, GR14 (Dining Svcs.)
Utilities Plant Head, GR25 (Utilities)
Custodian, GR16 (Statler Inn)
Cashier, GR15 (Campus Store)(2)
Field Asst. I, NP-4 (Plant Breed. & Biometry)

Technical

Lab. Tech. II, NP-11 (Animal Sci.)
Lab. Tech. 2, NP-11 (Avian & Aquatic An. Med., Eastport, N.Y.)
Lab. Tech. II, NO-11 (Nut. Sci.)

Lab. Tech. I, NP-8 (DCS-Mastitis Control)
Administrative/Professional
Dir. of Lab. Ops. I, CPO8 (Diagnostic Lab. Equine Drug Testing, Vernon Downs, N.Y.)
Staff Writer II, CPO4 (Media Services-News)

Personnel Assoc. II, CPO4 (Personnel Services)
Staff Writer, CPO2 (College/Regional Public Affairs Ofcs.-Sports Info.)

Part-Time and/or Temporary
Short Order Cook, GR18 (Dining Services)
Word Proc. Op., GR18 (Mech. & Aero. Eng.)
Secretary, GR18 (Chemistry)
Secretary, GR17 (DCS-Radiology)
Secretary, GR16 (COSEP Min. Educ. Affairs)
Temp. Employ. Clerk (Hum. Ec.-Placement)
Temp. Paper Grader (Comm. Arts)

Grad Student Orientation Program Wide-Ranging

A wide range of orientation activities has been planned for new and continuing graduate students, their families and friends. The events began this Tuesday and will continue through next Tuesday.

Some of the highlights to which all grads are invited include a skating warm-up party scheduled for 8:30 p.m. today in the Sage Hall Lounge, followed by a skating party in Lynah Rink; the President's Reception for New Students at 3:30 p.m. tomorrow in the Big Red Barn; a wine and cheese party at 9 p.m. Saturday in the Sage Lounge and a coffee house at 8:30 p.m. Sunday, also in the Sage Lounge.

"Because the graduate student body is such a diverse group—single and married students, on- and off-campus students and foreign stu-

dents—we have scheduled activities that would interest everyone," said Carol Young, graduate assistant for student families in the Dean of Students Office.

Young also said that various activities for graduate students are scheduled throughout the semester. This month, two events have been scheduled. At 9 p.m. Friday, Jan. 26, there will be a party at Cascadilla and on Thursday, Jan. 24, an off-campus coffee hour is scheduled. For further information about these and other graduate student activities, call Young at 256-3608 or Girish Reddy, graduate program assistant, at 256-5356.

A full calendar of events scheduled for orientation week is available at the Dean of Students Office, 103 Barnes Hall.



Odd Fellows Home sale to the School of Hotel Administration is completed in late December as Dean Robert A. Beck receives the deed to the complex on Trumansburg Road from Henry Weinstein, grand secretary of the Grand Lodge of the IOOF of the State of New York. In the left foreground is Byron Davenport, chairman of the Board of Trustees of the Grand Lodge, and next is C. George Wallace, treasurer of the Grand Lodge. Between Beck and Weinstein is Mrs. Beck. The hotel school purchased the 160-acre facility for about \$1 million and will use it to house its growing external education programs.

Hotel School Has Program For Tourism in China

The People's Republic of China has developed a program with the School of Hotel Administration to train some of its citizens in western business approaches to hotel management and tourism.

About 30 representatives from China will attend a 10-week workshop this summer in Honolulu, Hawaii, to be conducted by a cadre of experts assembled by Cornell's hotel school.

Dean Robert A. Beck of the school said the workshop is an outgrowth of a seminar he conducted in Beijing (Peking) last November on the international tourism industry. More than 200 delegates from all over China attended the sessions held at the request of Chinese government and under the auspices of General Atlantic Management Limited of Hong Kong. GAML is a

private tourism promotional firm headed by Charles F. Feeney, a 1956 graduate of Cornell's hotel school.

The two-day workshop was called the first of its type ever conducted by the People's Republic.

Beck said, "China's new tourism is probably not based on the idea of new export revenues. The policy seems aimed at China's great concern for having new friends all over the world with the resulting international empathy it will enjoin and, certainly, its impact on containing the growth of Soviet power in Asia."

"Whatever the political implications, China's tourism policies are good news for the travel trade and for world trade as well. The policies should continue so long as the Hua-Deng coalition for modernization survives," he said.

Pot Shop Has Classes

The Pottery Shop in Willard Straight Hall has scheduled a number of classes for the spring semester.

"Beginner's Throwing" will be offered Jan. 28 to March 9 at various times and days. The cost, including materials is \$35 for Cornell students and \$40 for non-students.

"Intermediate Throwing" will be offered from 4 to 5 p.m. Tuesdays or Thursdays Jan. 29 to March 6. Cost is \$15 for Cornell students and \$20 for non-students. Materials are extra.

A Raku demonstration will take place from 9 a.m. to 3 p.m. Thurs-

day, Jan. 17, in front of Willard Straight Hall. Raku, a Japanese process of firing pots, will be taught from Feb. 4 to March 9. Cost is \$15 for Cornell students and \$20 for non-students. Times for lessons will be arranged at a later date.

For the more experienced potter the Pottery Shop offers the use of the shop and its extensive facilities. Cost per semester is \$15 for Cornell students and \$20 for non-students. For the year the cost is \$25 for Cornell students and \$30 for non-students.

For more information and to register, call 256-5170.

Calendar Revised

The fall 1980 academic calendar has been revised to include a two-day mid-term break on Monday and Tuesday, Oct. 13 and 14, according to an announcement by Provost W. Keith Kennedy.

The term originally had been scheduled with a nine-day Thanksgiving vacation but no mid-term break. The revised calendar for 1980 also will include, as in the

past, a Thanksgiving vacation starting at 1:10 p.m. on the Wednesday before Thanksgiving (Nov. 27) and continuing through Sunday.

Kennedy announced the change back to this year's plan after approval by the Faculty Council of Representatives at its Dec. 12 meeting. The revision was recommended by the University's Campus Council and endorsed by Kennedy.

For Employees

New Performance Evaluation Forms

New, standardized performance evaluation forms for all non-academic exempt and GR classifications went into use this month.

Objectives of the new system are improved job understanding, employee growth and development and establishment of a base line for salary improvement decisions, according to a memo from Provost W. Keith Kennedy and Senior Vice President William G. Herbster to deans and executive officers, announcing the system.

The memo reaffirms Cornell's commitment "to the principle that all non-academic employees are entitled to a written appraisal of their performance at least annually by their immediate supervisor."

The new system is expected to provide the minimum basis for performance appraisal and insure that all non-academic employees will receive at least an annual review. In addition, performance appraisals should provide an opportunity for structured discussion of an employee's job performance.

Copies of the new three-part forms will be retained by the employee, the immediate supervisor and the individual to whom the supervisor reports.

The new forms outline criteria covering the elements present in most work situations (quality, dependability, judgment, etc.).

Supervisors are encouraged to supplement performance appraisals

with supporting information. In instances where an employee is rated "outstanding," "marginal" or "unsatisfactory," such supporting documentation is required.

The results of the performance appraisal are expected to provide supervisors with an equitable basis for determining salary increments. In addition, overall ratings will be reviewed by the unit's dean or executive officer to insure that recognition is accorded or, when appropriate, remedial action is taken.

It is anticipated that the performance appraisal system will be used to identify outstanding employees who should be considered for development and advancement.

Accidental Death Coverage Increased

Coverage under the Voluntary Accidental Death and Dismemberment Insurance Plan has been increased and the premiums reduced, effective Jan. 1.

The VADD plan provides coverage 24 hours a day, 365 days a year, anywhere in the world, in the event of death or injury caused by an accident, in addition to group life insurance coverage or any other insurance coverage a participant may have. The plan is open to all regular full and parttime employees and is optional.

Participants may select any amount of coverage starting with \$10,000. Amounts over \$100,000 cannot exceed five times annual base salary.

Bi-weekly rates for each \$10,000 of coverage have been reduced to \$.19 from \$.22 for individual employee coverage, and to \$.27 from \$.32 for family coverage.

The amount of coverage for each dependent child under the family plan has been increased to 10 percent from 5 percent of the parent's insurance coverage, up to a

maximum of \$10,000. In a family plan in which there is no spouse, the coverage for each dependent child will be increased to 15 percent from 10 percent of the parent's coverage, up to a maximum of \$10,000.

The changes were automatic for employees enrolled in the plan on the effective date. A mailing to individual employees will be sent out in the near future.

For more information about the plan, contact the Benefits Section, 6-3936.

Employee Transfers Simplified

Regular employees who have been in their current positions for at least nine months and who wish to apply for job vacancies on campus are no longer required to have a current employment application on file, according to Alice Miller, manager of Staffing Services.

A new Employee Transfer Application, available in Staffing Ser-

vices, 440 Day Hall, will permit an employee to apply for a specific job opening.

The employee should return the completed form to Staffing Services, where it will be reviewed by the staffing specialist handling the position and forwarded to the hiring department for consideration.

The new form should make it

easier for an employee to apply for another Cornell position and enable the employee to highlight experience and training relevant to the vacancy. The form also is designed to make it easier for a department to review applicant credentials.

Questions concerning transfer should be directed to 6-5226.

Relationships with SUNY Subject of Legislation

University officials and the Executive Committee of the Board of Trustees have discussed proposed legislation that would clarify relationships between Cornell and the State University of New York regarding the four statutory colleges here.

The amendment to the education law, which would clarify but make no substantive changes in the Cornell-SUNY relationship, was discussed at the executive committee's meeting in New York City Dec. 11, 1979.

It is hoped that the bill might be introduced in the 1980 session of the State Legislature after further discussion with the Cornell community, SUNY officials and the full

boards of both SUNY and Cornell.

"There is no intention to alter the relationship between the State University and the statutory colleges at Cornell," according to Constance E. Cook, vice president for land grant affairs.

"Existing statutes are replete with ambiguities and inconsistencies," she said. "The revision is designed to provide clarity of language and a cohesive basic statute for future operations.

"We want to have the law in accord with the administrative practices that have become the day-to-day reality of the statutes in order to avoid misinterpretation anywhere along the line."

Academic Affairs Unit To Continue 'Special'

The Executive Committee of the Board of Trustees voted to continue its Academic Affairs Committee as a special committee and approved a revised charge to the committee.

The action was taken at the committee's December meeting. The Academic Affairs Committee was established as a special committee by board action in 1975.

The following charge to the committee was adopted:

"The major responsibility of the Academic Affairs Committee is to advise the Board of Trustees on decisions related to educational policy and the academic programs of the University at Ithaca. This responsibility will be carried out by:

a. Keeping informed and advising the board concerning the educational implications of:

(i) recommendations for new programs and degrees;

(ii) existing academic programs, academically-related programs and services, and faculty appointment

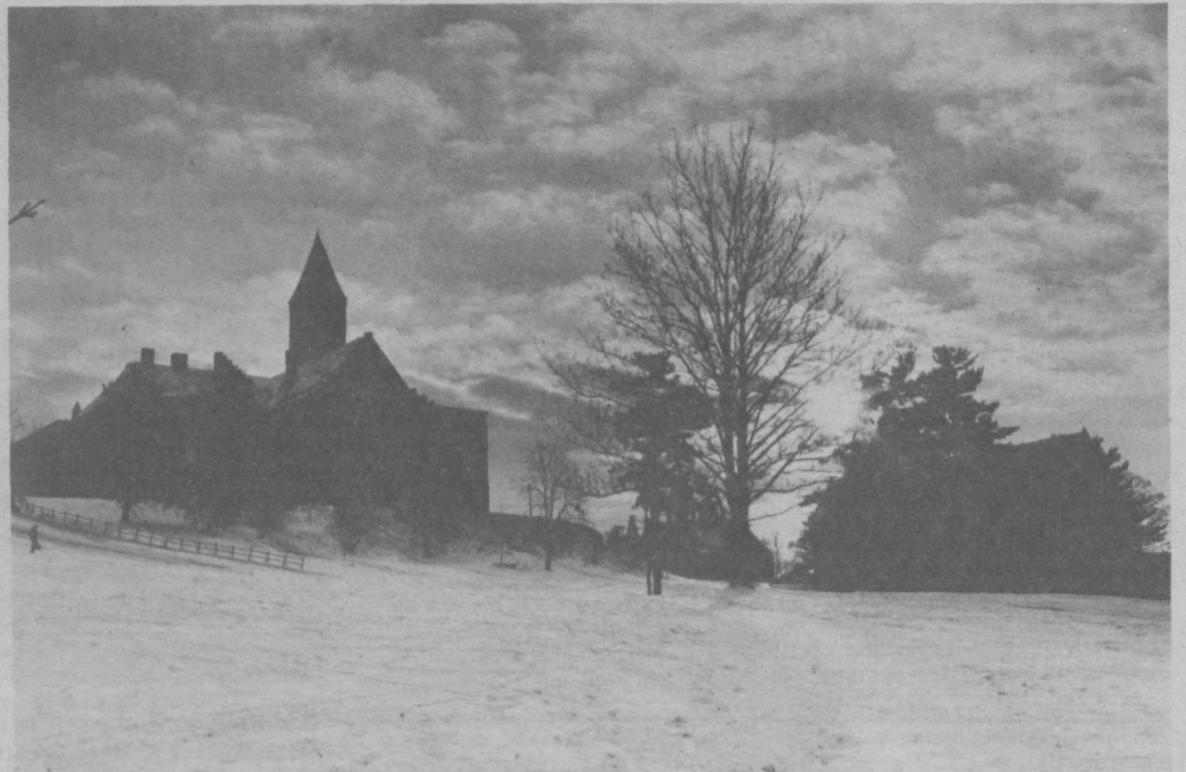
and promotion processes; and (iii) financial decisions to be made which would have substantial impact on educational policy or programs.

b. Raising new educational policy issues as appropriate and reviewing the long-range academic goals of the University.

c. Considering such other matters of academic import as the Board, President, Provost or Dean of Faculty may request.

d. Serving the Board and the Provost's Office as a vehicle for mutual exchange of academically-related questions and information."

It shall be the responsibility of the Provost to bring to the committee such matters as may be appropriate and to prepare presentations and reports for its consideration. The committee is established with full recognition of, and respect for, the responsibilities of the several faculties as set forth in the Bylaws of the University.



One of the few times this winter there has been any snow on the ground to photograph occurred in mid-December, when a light storm left this small cover on the slope.

Summary of Trustee Meeting Executive Committee Session

This Summary Journal of the Executive Committee of the Cornell University Board of Trustees meeting Dec. 11, 1979, in New York City, does not include confidential items which came before the meeting or items on which separate articles are published in this issue of Chronicle.

1. Minutes of the Executive Committee of Oct. 11, 1979 were approved.

2. President Frank Rhodes reported on matters of current interest on the campus.

3. The Executive Committee approved release of the report of the Board of Trustees' Special Committee of Inquiry, dated January 1957, for historical research purposes.

4. University Counsel Walter J. Relihan Jr. reported that the State Supreme Court in Ithaca had heard arguments Dec. 6 on whether the Cornell Board of Trustees must open parts of its meetings to the public. Counsel Relihan said he expected a court decision in early February.

5. Executive Committee Chairman Charles T. Stewart reported on a meeting of the Trustee-Community Communications Committee on Oct. 8 with a student organization, Frontlash, regarding University participation in a boycott of J.P. Stevens Corporation. The Executive Committee reaffirmed the University's stance of neutrality on

issues which do not affect it directly.

6. A report on quarterly indicators and financial results through Sept. 30, 1979, was presented by Senior Vice President William G. Herbster.

7. Vice President and Treasurer Robert T. Horn presented a schedule of newly classified capital funds.

8. The administration was authorized to release a 20' x 68' right-of-way connecting two parcels of the Aurora Agronomy Farm used by the College of Agriculture and Life Sciences.

9. The administration was authorized to accept a gift of hotel property in Longwood, Florida, known as the Longwood Inn, and authorized to sell the property for the purpose of partially funding a proposed professorship in the School of Hotel Administration in the academic discipline of small business.

10. A recommendation was approved, subject to approval of the National Science Foundation, to increase the budget for an HF Ionospheric Modification facility at the National Astronomy and Ionosphere Center's Observatory in Arecibo, Puerto Rico, from \$1,200,000 (approved Dec. 13, 1977) to \$1,425,000, the additional \$225,000 to be financed from an NAIC 1979 program year operating budget.

11. The administration was au-

thorized to renovate the eighth floor of Building "S" at the Medical College to accommodate the Division of Genetics, in the Department of Medicine, within a project budget of \$132,000.

12. The administration was authorized to proceed with renovations of Olin Residence Hall at Cornell Medical College within a budget of \$132,000.

13. The administration was authorized to participate in the New York Hospital's program to extend its steam distribution system to provide service to Olin Hall, Livingston Farrand Apartments, Kips Bay Building and Lasdon House, within a budget of \$200,000.

14. A report of the Buildings and Properties Committee was presented by Chairman Earl R. Flansburgh.

15. The charter of the Center for Environmental Research was amended to provide that the managing director of the Boyce Thompson Institute for Plant Research, or a designee, serve as an ex officio member of the Governing Board of the Center.

16. The New York Hospital was authorized to conduct programs of continuing education in nursing under the name of "The New York Hospital-Cornell Medical Center School of Continuing Education for Nurses."

Nominations Being Accepted For A.D. White Professorships

Nominations for three Andrew D. White Professors-at-Large positions are due no later than March 14 so that they may be filled in time for the fall 1980 term.

Nominations should be sent to Vinay Ambegaokar, Chairman, Program for A.D. White Professors-at-Large, 514 Clark Hall (ext. 6-5168), by campus or regular mail.

The nominations are invited from individuals or groups. Those with wide support from several departments or other academic units will carry special weight.

Other details concerning nomination procedures may be obtained by calling the program's secretary, Elizabeth Markees (ext. 6-4845).

Twenty-one of the world's outstanding scholars and scientists currently hold the Andrew D. White Professor-at-Large title. A list of who they are, their department affiliations and the expiration date of their terms follows:

Avineri, Shlomo, political scientist (1984) (Government); Cone, Edward T., composer, pianist, musicologist (1985) (Music); Cravioto, Joaquin, nutritionist (1981) (Nutritional Sciences); Diener, Theodor O., plant pathologist (1985) (Plant

Pathology); Dworkin, Ronald M., lawyer (1981) (Law School); de Gennes, Pierre-Gilles, physicist (1983) (Physics); Hobsbawm, Eric J., historian (1982) (History).

Also, Karlin, Samuel, mathematician (1981) (Operations Research); Khorana, H. Gobind, biochemist (1980) (Biochemistry, Molecular and Cell Biology); Kripke, Saul A., philosopher (1983) (Philosophy); Lindauer, Martin, sociobiologist (1982) (Neurobiology and Behavior); Nakane, Chie, anthropologist (1981) (Anthropology); Ringwood, Alfred E., geochemist (1980) (Geological Sciences); Roquet, Jacques, historian of science and literature (1980) (Romance Studies).

Also de Romilly, Jacqueline, classicist (1980) (Classics); Rommetveit, Ragnar, psychologist (1983) (Psychology); Rosenbluth, Marshall N., physicist (1982) (Plasma Studies); Sen, Amartya K., economist (1984) (Economics); Stern, J. Peter, Germanist (1982) (German literature); Thapar, Romila, historian (1985) (Government); de Wit, Cornelis T., agricultural scientist (1983) (Agronomy).

Renovation Projects Approved G-S, Rockefeller to Get Facelifts

An additional \$410,000 was appropriated by Trustees in December for Phase I of the \$3.4 million renovation program at Rockefeller and Goldwin Smith Halls, begun last summer.

The new funding nearly doubles the working budget of Phase I of the four-year project. It means that design can start immediately on a number of proposed projects. These include transferring the admissions

office of the College of Arts and Sciences from space in Rockefeller to new offices on the first floor of Goldwin Smith, where lecture room C is now located.

In addition, design work will start soon on the renovation of the third floors of both Rockefeller and Goldwin Smith as well as the design for a new south stairs and an elevator in Rockefeller.

Phase I had been funded ori-

ginally for \$500,000. The additional appropriation also means that construction on the renovation of two rooms in Goldwin Smith can start, as can renovation work on a portion of the third floor of Rockefeller.

Work begun this summer at Rockefeller is nearly 80 percent complete. Four new physics laboratories will be available to students in the basement of Rockefeller for the spring term.

Affirmative Action at Cornell

Rhodes Outlines Program to Community

President Frank Rhodes called for improving the effectiveness of affirmative action at Cornell in presentations before the faculty and the senior staff in December.

Through this memorandum he shares that message with the Cornell community because every member of the faculty and staff is responsible for affirmative action.

In it he says Cornell must add to its excellence through increased racial and sexual diversity among the faculty and staff. He also calls for developing an atmosphere at Cornell that will enhance an effective affirmative action program.

The text of his message follows:

I. General Statement on Overall Priority of Affirmative Action

A commitment to affirmative action remains one of the highest priorities for Cornell University. To strengthen and build that commitment will call for unusual energy, foresight, and creativeness, especially during the budget adjustment process of the next few years.

Cornell's distinction has been established on the quality and diversity of its faculty. This involves seeking and finding the best candidate for every position. That fundamental commitment cannot be fulfilled unless we are equally committed to the recruitment, training and promotion of persons in all positions (both academic and non-academic), without regard to race, color, religion, sex, age, national origin, or handicap, except where sex is a bona fide occupational qualification.

Affirmative action requires us to make special efforts to ensure that underutilized groups are adequately represented among candidates being considered for all new and continuing appointments at the University. It also means creating a climate where training is available which will enable Cornell staff members to prepare themselves for increased responsibilities.

Affirmative action is everyone's business. It cannot be implemented only by administrative officers, deans, and directors. It must involve the active cooperation and support of all members of the Cornell community, and must be a component of all search processes. But procedures themselves cannot guarantee the success of our affirmative action program. This will depend upon the active commitment and cooperation of everyone in the Cornell community. It is especially important that members of search committees for faculty and senior appointments should seek out and encourage talented women and minorities to apply for these positions. And all of us are responsible for providing these individuals with a supportive and open community in which to pursue their professional careers.

This is not to suggest that there has been widespread neglect of affirmative action. On the contrary, significant progress has been made in many areas. As an example, of the 73 new faculty appointed at the beginning of the 1979 fall semester, 19 (26%) are women and 9 (12.3%) are minorities, of which 7 are black and 2 are Asian American. These percentages represent a great improvement over the past few years. Of the 135 new faculty appointed last year, for example, 23 (17%)

were women and 5 (4%) were minorities. But much more still needs to be done.

II. Recent Steps Towards Progress in Affirmative Action

In order to improve the effectiveness of the affirmative action program at Cornell, the following steps have been taken to strengthen the present administrative organization, moving the University more firmly and swiftly toward its affirmative action goals:

A. Continuity in Leadership of the Office of Equal Opportunity.

Dr. Alison Casarett, the University's Equal Opportunity Officer, will be devoting a large share of her time during the next few months to working with the new leadership in the Admissions and Financial Aid Offices. I have, therefore, asked Provost W. Keith Kennedy to assume responsibility during this period, for all matters relating to equal opportunity and affirmative action — both academic and non-academic. Mr. Michael Montgomery, the Executive Director of the Office, will report directly to him.

B. Strengthening the Office of Equal Opportunity.

The Office of Equal Opportunity has been strengthened in several ways. A Staff Assistant has been added. The vacant positions of Equal Opportunity Specialist and Equal Opportunity Specialist for the Handicapped and Veteran Affairs have been filled. With the addition of these positions, the staff of the Office will consist of:

Executive Director, Michael Montgomery; Equal Opportunity Specialist, Judith Stewart; Staff Assistant, Sibyl Martin; Staff Assistant for the Status of Women, Ann Roscoe; Equal Opportunity Specialist of the Handicapped and Veteran Affairs, Kathleen Donovan; Senior Administrative Secretary, Helen Dixon; Executive Secretary, Betty Topping.

With this expanded staff, the Office will have greater ability to monitor progress in affirmative action and to gather and analyze accurate and timely information. The Office will also be able to give more effective help to colleges, schools and departments as they move to

strengthen their affirmative action efforts.

C. Clarification of Criteria for Tenure Promotions.

Working through the deans, the administration has requested that colleges, schools and departments clarify their requirements and expectations for tenure promotions — an area of particular concern for women and minorities. It is intended that these clarified requirements and expectations be communicated to young faculty not simply at the time of their appointment but also as needed during periodic visits that department chairpersons will be encouraged to hold with them to discuss their performance.

D. Special Programs for Underrepresented Groups Especially Women and Minorities.

Two programs have been set up to bring experienced women and minority members to the campus, either for a semester or two as visiting professors or as tenured faculty to fill open untenured line positions. It is anticipated that these programs will have an impact far beyond their modest scope, not least in demonstrating the important part that the presence of such faculty members can play in maintaining and enriching the quality of academic life.

E. Revised Grievance Procedures.

The University Counsel's Office, in consultation with the Office of Personnel Services and the Office of Equal Opportunity, has revised our current non-academic employee grievance procedures to incorporate affirmative action problems. These revised procedures will be reviewed by various campus committees with the aim of having the procedures finalized by the end of 1979. Once approved, the final version of the procedures will be on file in the University Ombudsman's Office, where it may be consulted by all members of the University community.

F. Work Force Analysis and Revised Affirmative Action Plan.

Our work force analysis and revised affirmative action plan are almost complete. They will need and receive continual improvement, but they are far better than anything we have had so far.

G. Increasing Accountability of

Colleges, Schools, and Non-Academic Departments.

Efforts have begun, and will continue, to hold individual colleges, schools, and non-academic departments increasingly accountable for their affirmative action efforts. This means that the affirmative action unit representatives (which each college, school, and non-academic unit has appointed) will have an increasingly important and influential role to play as they carry out such responsibilities as reviewing search plans and appointments for affirmative action compliance. In view of their increased responsibilities, I am asking the Provost to review the status and appointment of all unit representatives.

III. Improving Affirmative Action Procedures

I am requesting that the following steps be taken to strengthen existing procedures and add certain other procedures I believe necessary to improve the effectiveness of affirmative action as a component of all recruitment, appointment, and promotion activities at Cornell. These proposed procedures have benefitted from discussion with various groups, including the deans, executive staff, and advisory committees.

A. Academic and Non-Academic Appointments:

1. Review of Affirmative Action Progress.

In order that all deans, directors, and department heads give high priority to affirmative action, I am asking Provost Kennedy and Senior Vice President Herbster to ensure that affirmative action reviews are incorporated into the annual reviews of each unit. The Provost and Senior Vice President will incorporate affirmative action reviews into budget conferences, and will specify that implementation of affirmative action will be a standard expectation in job descriptions and evaluations. They will encourage the adoption of the same procedures in annual budget conferences between deans, directors, and department heads.

2. Monitoring by Affirmative Action Unit Representatives.

The affirmative action unit representatives will ensure, before an offer of appointment is made, that

good faith affirmative action efforts have been followed in developing and reviewing the final list of candidates.

B. Academic Appointments

1. Representation on Search Committees.

I am encouraging deans, directors, and chairpersons to include women and minority persons in search committees whenever their professional skills and experience would assist the college, division or department in selecting the most qualified candidate from a pool which includes as many qualified women and minorities as possible. In cases where no women or minorities exist in a unit, or where their numbers are so small that such an arrangement would overburden them, consideration should be given to seeking the advice of outside experts.

2. More Effective Recruitment Program for Women and Minority Candidates.

I am asking department chairpersons, with assistance and encouragement from the deans, to develop a more aggressive recruitment program for locating strong women and minority candidates for academic positions. Such a program should include the identification of potential candidates while they are still in graduate school.

3. Criteria for Judging Candidates.

Criteria used in judging the best qualified candidate should be clearly spelled out by the dean and the search committee at the beginning of the search and should include consideration of potential. Some women and minorities may have limited experience in academic appointments but have demonstrated great potential.

4. Flexibility in Hiring Policy for Cornell Ph.D.s.

The practice of discouraging the hiring of Cornell Ph.D.s should be made more flexible when a particularly strong minority or female candidate is already here. In such cases, serious consideration should be given to them as candidates for positions available at Cornell.

5. Academic Appointment Manual.

The Provost will inform all members of the faculty, particularly new faculty, of the existence of the Cornell Academic Appointment Manual and of its availability for reference in departmental offices and the reserve desks of University Libraries.

6. Strengthening Affirmative Action in Off-Campus Extension Recruitment and Programs.

The College Deans and the Directors of Extension will ensure that affirmative action is given added emphasis in recruitment and programs.

7. More Effective Recruitment of Women and Minority Graduate Students.

The Dean of the Graduate School at Cornell will ensure that the recruitment of women and minority graduate students is given prominence as a means of increasing their future availability for faculty positions.

C. Non-Academic Appointments

1. Specific Strategies for Recruitment, Retention, and Training.

I have asked Senior Vice President Herbster to develop, in consultation with the Office of Personnel Services and the Office of Equal Opportunity, specific strategies for re-

(Continued on Page 17)

Some Questions from Staff Meeting

Sexual Harassment Among Topics

A wide range of questions was posed to President Frank Rhodes and members of the executive staff after his presentation on affirmative action before the senior management staff in December.

During the question-and-answer period, Rhodes was asked about the incidence of sexual harassment on campus. He replied that there was a marked increase during the fall semester in the number of complaints of sexual harassment.

The complaints have involved relationships between faculty and students and between supervisors and employees. Although the victims are usually women, sexual harassment may be a two-way street. Rhodes said that though the number of complaints is small, it is significant, and talks with various campus

groups suggest that other instances may go unreported.

"The University will not tolerate such exploitation," he said.

Persons who have such complaints should contact staff members in the Office of the Ombudsman, the Office of Equal Opportunity or University Personnel Services.

Rhodes repeated his view on the problem in discussing it before the faculty.

In response to a question about money for national searches for job candidates, Provost W. Keith Kennedy said University funds would be made available when a national search is needed.

Another area of concern—competitive salary offers to job candidates—was addressed by Senior

Vice President William G. Herbster. "It's worthwhile paying more dollars to get top quality," he said was a conclusion reached by him, Rhodes and Kennedy.

"If there's really a reason to break rules on salary limitations to get a top-flight person, once in a while we'll be willing to break the rules," he said. The University wants hiring policies to be implemented intelligently, Herbster added.

Rhodes was asked about how search committees might be composed in order to "open out the process." He said the spirit of his recommendation in his affirmative action statement is to open up search committees and to get a representative membership.



General Information

The rate of tuition for courses in the regular sessions is \$110 per credit, plus a general fee of \$5 per week. In addition, some courses may have course fees. More detailed information is available from Cornell University Summer Session, 105 Day Hall, Ithaca, New York 14853 (telephone: 607/256-4987), or in the Announcement, which will be published in March 1980.

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 2-24

ANTHROPOLOGY

- 103 Introduction to Cultural Anthropology (U,G)** 4 credits. M-F 9:30-11:45. D. R. DeGlopper.
358 (also Arkeo 358) Archaeological Research Methods (U,G) 4 credits. M-F 9:30-12. R. Sternberg.

ARCHAEOLOGY

- 358 (also Anthr 358) Archaeological Research Methods (U,G)** 4 credits. M-F 9:30-12.

ARCHITECTURE

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

ART

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

BIOLOGICAL SCIENCES

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

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. P. McClelland.
102 Introductory Economics: Microeconomics (U,G) 3 credits. M-F 9:30-12. E. Grinols.
301 The Economics of Market Failure (U,G) 4 credits. M-F 9:30-12. P. Weller.
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. Staff.
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.
362 International Monetary Theory and Policy (U,G) 4 credits. M-F 9:30-12. L. Ebrill.
371 Process of Economic Development (U,G) 4 credits. M-F 9:30-12. G. Fields.

ENGINEERING

CHEMICAL ENGINEERING

- 110 Mass and Energy Balances (U,G)** 3 credits. Self-paced audiovisual instruction. R. G. Thorpe.
681 Electron Microscopy (U,G) 3 credits. M-F 9. G. Cocks.

ELECTRICAL ENGINEERING

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

THEORETICAL AND APPLIED MECHANICS

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

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. R. Parker.
275 The American Literary Tradition (U) 3 credits. M-F 9-10:15, 10:30-11:45. M. Colacurcio.
360 Robert Frost and Wallace Stevens (U,G) 4 credits. M-F 9-10:15, 10:30-11:45. R. Morgan.
388 Narrative and Expository Writing (U,G) 4 credits. M-F 9-10:15, 10:30-11:45. E. Rosenberg.
471 Modern British Fiction (U,G) 4 credits. M-F 9-10:15, 10:30-11:45. P. Marcus.
477 Children's Literature (U,G) 4 credits. M-F 9-10:15, 10:30-11:45. T. Hill.

GOVERNMENT

- 111 American Government and Politics (U,G)** 3 credits. M-F 10:30-12:45. P. Leeds.
161 Freedom and Justice in the Western Tradition: An Introduction to Political Philosophy (U,G) 3 credits. M-F 8:15-10:30.



- 300 Politics of Energy (U,G)** 4 credits. M-F 8-9:30, 10-11. E. Kenworthy.
316 The American Presidency (U,G) 4 credits. M-F 11-12:15. R. Kurlander.
357 Political Development in Western Europe (U,G) 4 credits. M-F 9-11:15. S. Tarrow.

HISTORY

- 271 Revolution and Society in Soviet and Tsarist Russia (U,G)** 4 credits. M-F 10-11:15, 2:30-3:30. W. M. Pintner.
274 Foodways: A Social History of Food and Eating (U,G) 4 credits. M-F 8-9:15, 11-12. S. L. Kaplan.
299 Introduction to the History of China, Early Times to Modern (U,G) 4 credits. M-F 8:45-10, 11-12:15. C. A. Peterson.

HUMAN DEVELOPMENT AND FAMILY STUDIES

- 685 Seminar in Human Development and Family Studies: Data Analysis for the Social Sciences (U,G)** 3 credits. M-F 9:30-11:45. C. Pearlman.

INDUSTRIAL AND LABOR RELATIONS

- 340 Economic Security (U,G)** 3 credits. M-F 9:15-11:30. R. Butler.
371 Individual Differences and Organizational Behavior (U,G) 4 credits. M-F 2-4:30. L. Gruenfeld.
426 Theories of Industrial Society (U,G) 4 credits. M-F 8-10:30. S. Bacharach.

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. B. Babb.

PSYCHOLOGY

- 275 Introduction to Personality Psychology (U,G)** 4 credits. M-F 10-12:30. R. Dworkin.
325 Introductory Psychopathology (U,G) 3 credits. M-F 10-12:30. R. Mack.
350 Statistics and Research Design (U,G) 4 credits. M-F 10-11:15, 1:15-2:30. C. Johnson.
381 Social Psychology (U,G) 3 credits. M-F 1-3:30. D. Regan.

ROMANCE STUDIES

ITALIAN

- 344 Dante in Translation (U,G)** 4 credits. M-F 9-11:15. G. Massotta.

SOCIOLOGY

- 243 Family (U)** 3 credits (4-credit option available). M-F 9:30-11:45. D. Hayes.
282 Contemporary Social and Personal Issues in Sex Roles (U,G) 3 credits. M-F 12:30-2:45. Mark Maier.

Six-Week Session

June 25–August 8

ANTHROPOLOGY

- 102 Introduction to Anthropology: The Cultural Perspective (U,G)** 4 credits. M-F 11-12:15. B. J. Isbell.
- 104 Human Evolution (U,G)** 4 credits. M-F 9:30-10:45. L. E. Sponsel.
- 322 Comparative Religious Systems (U,G)** 4 credits. M-F 12:30-1:45. D. H. Holmberg.

ARCHAEOLOGY

- 110 (also Engl 110) The Vikings (U)** 3 credits. M-F 8-9:15. R. Farrell, S. Straight.

ARCHITECTURE

- 125 Issues and Methods in 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. J. O. Bragstad.
- 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. S. Taft.
- 123 Landscape Drawing and Painting (U,G)** 3 credits. M-F 8:30-10:30. E. Mikus.

ATMOSPHERIC SCIENCES

- 101 Basic Principles of Meteorology (U,G)** 3 credits. 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 11-12:15. D. Levin.
- 240 Plant Physiology (U,G)** 5 credits. Lectures M-F 8-9:15; labs 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.
- 300 Laboratory Methods in Biology (U,G)** 3 credits. M-F 2-4:30.
- 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 Vertebrate Developmental Anatomy (Embryology) (U,G)** 3 credits. Lectures T 9:30-10:45; labs T R 1:25-4:25. A. W. Blackler.
- 471 Mammalogy (U,G)** 4 credits. M W 2-4:30, F 2-3:15. Additional lab time and two weekend trips to be arranged.
- 475 Ornithology (U,G)** 6 credits. Lectures M W F 8:30-10:30; morning field trips 6-8:30; and two weekend trips. Labs M W F 12:30-5.

BUSINESS AND PUBLIC ADMINISTRATION

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



Closed out or course not offered this spring? No problem, take it this summer.

- 132 Introductory Silk-Screen Printing (U,G)** 3 credits. M T W R 7-9:30 p.m. M. Baum.
- 141 Sculpture (U,G)** 3 credits. M-F 2-4. M. Vallila.
- 154 Life and Still-Life Drawing (U,G)** 2 credits. June 25-July 17. M-F 9-12. Z. Blum.
- 155 Conceptual Drawing (U,G)** 2 credits. July 18-August 8. M-F 8:30-11:30. B. Cooke.
- 161 (also Arch 251) Beginning Photography (U,G)** 3 credits. M W F 2-4, plus darkroom work. J. O. Bragstad.
- 163 Advanced Photography Workshop (U,G)** 3 credits. M W F 2-4, plus darkroom work. Staff.
- 270 Special Studios (U,G)** Hours and credits by arrangement.

ASTRONOMY

- 105 A Rough Sketch of Our World (U)** 3 credits. M-F 11-12:15; evening labs to be arranged.
- 106 Essential Ideas in Relativity and Cosmology (U)** 3 credits. M-F 9:30-10:45.

CHEMISTRY

- 207 (Lect. 1) General Chemistry (U)** 4 credits. June 26-July 17 (three weeks). Lectures M-F 8-9:50; recitations M-F 10-10:50; prelabs M-F 11-11:30; labs M-F 12:30-3:30. S. T. Marcus and assistants.
- 207 (Lect. 2) General Chemistry (U)** 4 credits. June 26-August 8 (six weeks). Lectures M W F 12:20-2:15; labs and recitations T R 12:20-4:25. S. T. Marcus and assistants.
- 208 (Lect. 1) General Chemistry (U)** 4 credits. July 18-August 8 (three weeks). Lectures M-F 8-9:50; recitations M-F 10-10:50; prelabs M-F 11-11:30; labs M-F 12:30-3:30. S. T. Marcus and assistants.
- 208 (Lect. 2) General Chemistry (U)** 4 credits. June 26-August 8 (six weeks). Lectures M W F 10:10-12:05; labs and recitations M-F 8-12:05. S. T. Marcus and assistants.

CLASSICS

- GREEK**
- 101 Greek for Beginners (U)** 4 credits. June 26-July 17. M-F 8-9:15, 11-12:15; plus one lab session per week. F. Ahl.
- 103 Attic Greek (U)** 3 credits. July 18-August 8. M-F 8-9:15, 11-12:15.

CLASSICAL CIVILIZATION

- 109 (also Engl 109) Introduction to Rhetoric (U)** 3 credits. M-F 9:30-10:45. F. Ahl and staff.

COMMUNICATION ARTS

- 301 Oral Communication (U,G)** 3 credits. Sec. 1 M-F 8-9:15; sec. 2 M-F 9:30-10:45; sec. 3 M-F 11-12:15. B. Earle and staff.

COMPARATIVE LITERATURE

- 101 Character and Conflict (U)** 3 credits. M-F 11-12:15. Staff.
- 105 The Hero in Fiction (U)** 3 credits. M-F 9:30-10:45. Staff.
- 325 Biblical Law (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 lab.

ECONOMICS

- 101 Introductory Economics: Macroeconomics (U,G)** 3 credits. M-F 8-9:15. Staff.
- 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 8-9:15. Staff.
- 312 Intermediate Macroeconomic Theory (U,G)** 4 credits. M-F 9:30-10:45. G. Staller.
- 320 Quantitative Methods (U,G)** 4 credits. M-F 9:30-10:45. W. Weida.
- 361 International Trade, Theory and Policy (U,G)** 4 credits. M-F 11-12:15. Staff.
- 368 Comparative Economics: United States, Europe, and the Soviet Union (U,G)** 4 credits. M-F 11-12:15. G. Staller.

ENGINEERING

- CHEMICAL ENGINEERING**
- 110 Mass and Energy Balances (U,G)** 3 credits. Self-paced audiovisual instruction. R. G. Thorpe.
- MECHANICAL AND AEROSPACE ENGINEERING**
- 209 Is Small Beautiful? (U,G)** 3 credits. M-F 8-9:15. B. Conta.
- 302 Technology, Society, and the Human Condition (U,G)** 3 credits. M-F 11-12:15. B. Conta.

OPERATIONS RESEARCH AND INDUSTRIAL ENGINEERING

- 260 Introductory Engineering Probability (U,G)** 3 credits. M-F 8-9:15. Staff.
- 270 Basic Engineering Statistics (U)** 3 credits. M-F 9:30-10:45. Staff.
- 622 Operations Research I (U,G)** 3 credits. M-F 9:30-10:45. Staff.

ENGLISH

- 109 (also Class 109) Introduction to Rhetoric (U)** 3 credits. M-F 9:30-10:45. F. Ahl and staff.
- 110 (also Arkeo 110) The Vikings (U)** 3 credits. M-F 8-9:15. R. T. Farrell and S. Straight.
- 135 Writing from Experience (U)** 3 credits. Sec. 1 M-F 8-9:15, K. Hjortshoj; sec. 2 M-F 9:30-10:45, K. McClane; sec. 3 M-F 11-12:15, C. Solomon; sec. 4. M-F 2-3:15, staff; sec. 5 M-F 9:30-10:45, staff; sec. 6 M-F 11-12:15, staff.
- 136 Practical Prose and Composition (U)** 3 credits. Sec. 1 M-F 8-9:15, staff; sec. 2 M-F 9:30-10:45, J. Lumley; sec. 3 M-F 11-12:15, D. Keller; sec. 4 M-F 9:30-10:45, staff; sec. 5 M-F 11-12:15, staff.
- 137 Writing Workshop (U)** 1, 2, or 3 credits. Tutorials M-F at times to be arranged.
- 150 Poetry and Fiction (U)** 3 credits. M-F 9:30-10:45. W. Wetherbee.
- 157 American Fiction (U)** 3 credits. M-F 8-9:15. Staff.
- 159 American Literature and Culture (U)** 3 credits. Sec. 1 M-F 9:30-10:45, staff; sec. 2 M-F 11-12:15, staff.
- 240 Tutorials in Literature and the Humanities (U)** 1, 2, or 3 credits. S. Youra and staff.
- 270 The Reading of Fiction (U)** 3 credits. Sec. 1 M-F 8-9:15, D. Schwarz; sec. 2 M-F 9:30-10:45, D. Fogel.
- 275 The American Literary Tradition (U)** 3 credits. M-F 9:30-10:45. M. Colacurcio.
- 288 Expository Writing (U)** 3 credits. Sec. 1 M-F 8-9:15, staff; sec. 2 M-F 9:30-10:45, staff.
- 319 Chaucer (U,G)** 4 credits. M-F 11-12:15. W. Wetherbee.
- 340 Romantic Poetry (U,G)** 4 credits. M-F 11-12:15. D. Fogel.
- 360 Robert Frost and Wallace Stevens (U,G)** 4 credits. M-F 12:30-1:45. R. Morgan.
- 367 Modern American Fiction (U,G)** 4 credits. M-F 11-12:15. R. Daly.
- 385 Advanced Verse Writing (U,G)** 4 credits. M-F 2-3:15. R. Morgan.
- 470 James Joyce: Ulysses (U,G)** 4 credits. M-F 9:30-10:45. D. Schwarz.
- 472 Modern Drama (U,G)** 4 credits. M-F 2-3:15. D. Keller.

FLORICULTURE

- Drawing 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 26-July 17. Lectures M-F 9:30-11:20; labs M T W R 1:30-4. W. R. Brice.
- 102 Introductory Geological Science (U)** 3 credits. July 18-August 8. Lectures M-F 9:30-11:20; labs M-F 1:30-4. W. R. Brice.

GOVERNMENT

- 100 (Sec. 1) Politics and Moral Choice (U)** 3 credits. M-F 8-9:15. I. Kramnick.
- 100 (Sec. 2) Liberalism and Conservatism in American Politics (U)** 3 credits. M-F 9:30-10:45. I. Kramnick.
- 111 American Government and Politics (U,G)** 3 credits. M-F 11-12:15. E. W. Kelley.
- 131 Introduction to Comparative Government (U,G)** 3 credits. M-F 9:30-10:45.
- 161 Freedom and Justice in the Western Tradition: An Introduction to Political Philosophy (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. D. J. Driscoll.
- 314 Common Law and Lawyers in America (U,G)** 4 credits. M-F 11-12:15. E. Eisenach.
- 332 Politics and Society in France and Italy (U,G)** 4 credits. M-F.
- 338 Politics and Modernization (U,G)** 4 credits. M-F.
- 341 Society and Politics in Central Europe (U,G)** 4 credits. M-F.
- 358 Politics of the Middle East (U,G)** 4 credits. M-F 11-12:15. G. Sheffer.
- 389 International Law (U,G)** 4 credits. M-F 9:30-10:45. D. J. Driscoll.
- 406 The Politics of Education (U,G)** 4 credits. M-F 9:30-10:45. E. W. Kelley.

HISTORY

- 151 Introduction to Western Civilization (U,G)** 4 credits. M-F 9:30-10:45. D. Courtney-Batson.
- 152 Introduction to Western Civilization (U,G)** 4 credits. M-F 11-12:15. L. Turansky.
- 201 Introduction to American History: From the Beginning to 1865 (U,G)** 3 credits. M-F 12:30-1:45. F. Somkin.
- 203 Crime and Punishment in the American Imagination: From the Witchcraft Trials to Mickey Spillane (U,G)** 4 credits. M R 2-4:30. F. Somkin.

HISTORY OF ART

- 103 Seminar in Visual Analysis (U,G)** 3 credits. M-F 11-12:15. R. G. Calkins.
- 235 Introduction to Art History: Medieval and Renaissance Art (U,G)** 3 credits. M-F 9:30-10:45. R. G. Calkins.
- 261 Introduction to Art History: Modern Art (U,G)** 3 credits. M-F 12:30-1:45. P. B. Smith.

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.
- 150 The Family in Modern Society (U)** 3 credits. M-F 11-12:15. Staff.
- 315 Human Sexuality: A Psychosocial Perspective (U)** 3 credits. M-F 9:30-10:45. Staff.

INDUSTRIAL AND LABOR RELATIONS

- 100 History of Industrial Relations in the United States (U,G)** 3 credits. M-F 9:30-11:45. R. Keeran.
- 150 Labor Problems in American Society (U)** 3 credits. M-F 8-9:15. G. Korman.
- 370 The Study of Work Motivation (U,G)** 4 credits. M-F 11-12:15. L. Gruenfeld.
- 381 Jewish Workers in Europe and America, 1789-1948 (U,G)** 4 credits. M-F 11-12:15. G. Korman.
- 402 The Social Psychology of Bargaining (U,G)** 3 credits. M T W R 3:35-5:10. A. Shirom.
- 405 Dramatic Events in Labor History, As Told by Those Who Made It (U,G)** 3 credits. M-F 2-3:15. J. Morris.
- 510 Introductory Statistics for the Social Sciences (G)** 3 credits. Lectures M-F 9:30-10:45; labs two sessions each week, to be arranged. I. Blumen.
- 686 Collective Bargaining in the Public Sector (U,G)** 3 credits. M T 7-10 p.m. J. Burton.

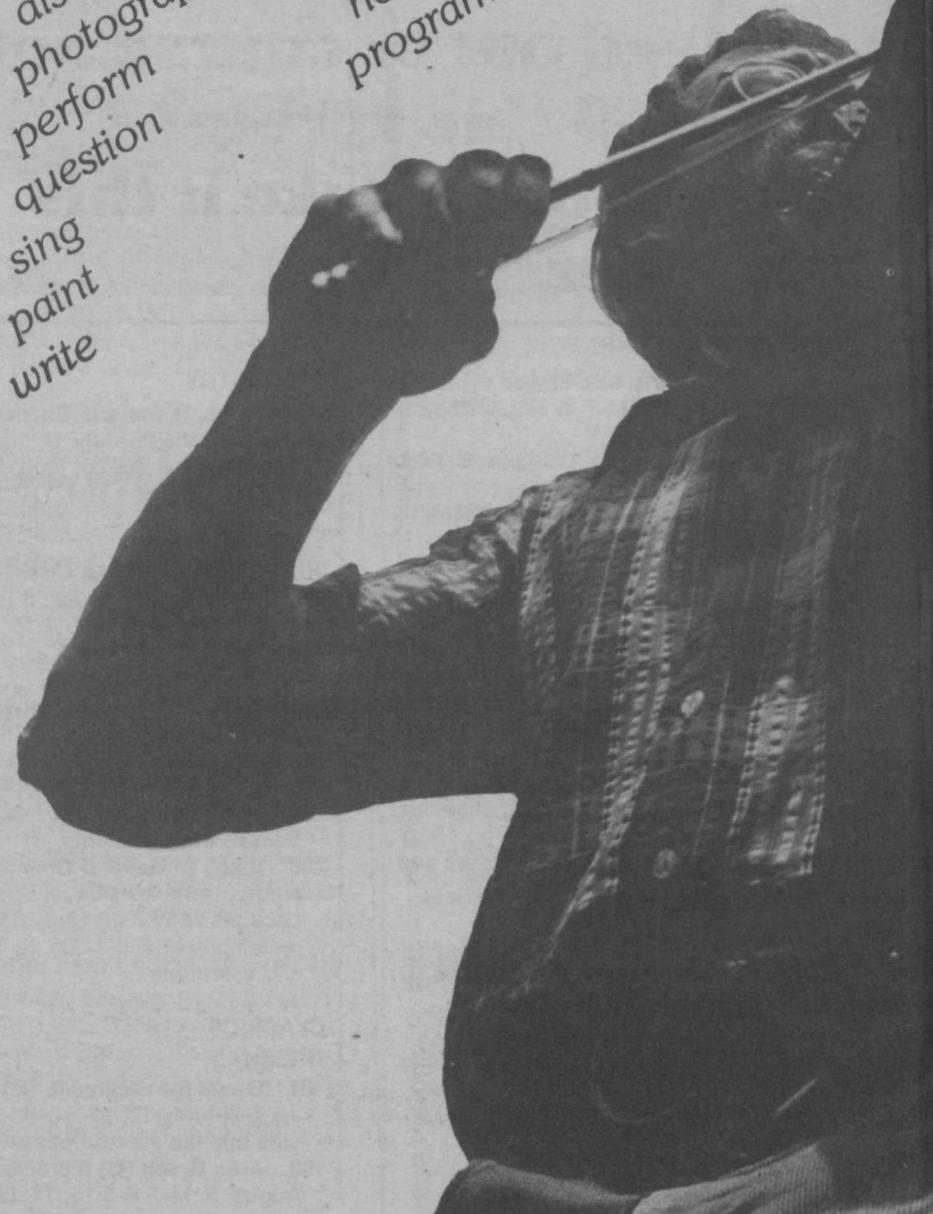


This summer you can...

bike
travel
play
dissect
photograph
perform
question
sing
paint
write

observe
discover
teach
listen
help
program

sail
explore
design
produce
browse
dig



touch
cook
dance
weave
sculpt
canoe
run

read
draw
swim
golf
camp
create
plant
act



LANDSCAPE ARCHITECTURE

- 140 Introduction to Landscape Design (U)** 3 credits. M-F 9:30-10:45. R. L. Dwelle.
- 340 Residential Landscape Design I (U)** 3 credits. Lectures M W 11-12:15; Studios M T W R 1:45-4:30. R. L. Dwelle.

MATHEMATICS

- 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 26-July 17. M-F 9:30-10:45, 2-3:15.
- 122 Calculus (U)** 3 credits. July 18-August 8. M-F 9:30-10:45, 2-3:15.
- 123 Analytic Geometry and Calculus (U)** 4 credits. M-F 8-9:15.
- 331 Linear Algebra (U,G)** 4 credits. M-F 11-12:15.

MICROBIOLOGY

- 290 General Microbiology, Lectures (U,G)** 3 credits. M-F 11-12:15.
- 291 General Microbiology, Laboratory (U,G)** 3 credits. M-F 2-4:30.

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 26-July 17. M-F 8.
- 132 French Elementary Reading Course I (U,G)** 3 credits. July 18-August 8. 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 26-July 17. M-F 8. Staff.
- 132 German Elementary Reading Course I (U,G)** 3 credits. July 18-August 8. M-F 8. Staff.

LINGUISTICS

- 101 Introduction to the Scientific Study of Language (U,G)** 3 credits. M-F 12:30-1:45.
- 302 Multilingual Societies and Cultural Policy (U,G)** 4 credits. M-F 8-9:15. D. F. Solá.

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,G)** 3 credits. M-F 9:30-10:45. T. A. Sokol.
- 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.

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



NATURAL RESOURCES

- 216 Biological Aspects of Water Pollution and Control (U,G)** 3 credits. M W F 9:30-10:45; W 1-3:30. E. Moran and N. Trautmann.
- 218 Environmental Impacts of Alternative Technologies (U,G)** 3 credits. M-F 9:30-10:45. S. E. Fast and J. J. Madras.
- 230 Diet for a Small Planet (U,G)** 3 credits. M-F 9:30-10:45. B. Babb.

NEAR EASTERN STUDIES

- 101 Elementary Hebrew (U,G)** 6 credits. M-F 9:30-10:45, 11-12:15. Staff.
- 113 Colloquial Arabic (U,G)** 6 credits. M-F 9:30-10:45, 11-12:15. R. Hoberman.
- 342 The Jew in the Modern World: Challenge and Opportunity (U,G)** 4 credits. M-F 9:30-10:45. J. Cohen.
- 376 Islamic Law and Society (U,G)** 4 credits. M-F 9:30-10:45. D. S. Powers.

PHILOSOPHY

- 100 Introduction to Philosophy (U)** 3 credits. M-F 9:30-10:45.
- 101 Introduction to Philosophy (U)** 3 credits. M-F 9:30-10:45.
- 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.
- 245 (also Bio S 205) Biomedical Ethics (U,G)** 3 credits. M-F 12:30-1:45. D. Levin.

PHYSICS

- 112 Physics I: Mechanics and Heat (U)** 4 credits. Lectures and discussion M-F 11-12:15; labs T R 2-5.
- 213 Physics II: Electricity and Magnetism (U)** 4 credits. Lectures and discussion M-F 9:30-10:45; labs T R 2-5.
- 214 Physics III: Optics, Waves, and Particles (U)** Lectures and discussion M-F 11-12:15; labs T R 2-5. D. Schuster.
- 400 Independent Study in Physics: Advanced Experimental Physics (U)** 3 credits.
- 500 Informal Graduate Laboratory (G)** 1 or 2 credits. M-F 2-5.

PSYCHOLOGY

- 101 Introduction to Psychology: The Frontiers of Psychological Inquiry (U,G)** 3 credits. M-F 12:30-1:45. D. Micham.
- 105 Great Ideas in Psychology (U)** 3 credits. M-F 11-12:15. S. Long.
- 107 Emotion and Personal Growth (U)** 3 credits. M-F 2-3:15. G. Colvin.
- 123 Introduction to Psychology: Biopsychology (U,G)** 3 credits. M-F 9:30-10:45. K. Immler.
- 128 Introduction to Psychology: Personality and Social Behavior (U,G)** 3 credits. M-F 9:30-10:45. S. C. Jones.

- 211 Altered States of Consciousness and Experimental Parapsychology (U,G)** 3 credits. M-F 11-12:15.
- 214 Introduction to Psychology: The Cognitive Approach (U,G)** 3 credits. M-F 11-12:15. J. Farber.
- 469 Psychotherapy: Its Nature and Influence (U,G)** 3 credits. June 26-August 1. M-F 9:30-10:45. R. Mack.
- 489 (also Soc 489) Seminar: Selected Topics in Social Psychology (U,G)** 4 credits. T R 12:30-2:45. S. Jones.

ROMANCE STUDIES

- Frnch 201 Introduction to French Literature: The Modern Tradition (U,G)** 3 credits. M-F 11-12:15. R. Klein.
- Frnch 222 French Civilization (U,G)** 3 credits. M-F 9:30-10:45. J. Bereaud.

SOCIOLOGY

- 101 Introduction to Sociology (U)** 3 credits. M-F 9:30-10:45. D. Pohl.
- 243 Family (U)** 3 credits (4-credit option available). M-F 12:30-1:45. T. Crowley.
- 245 Inequality in America (U)** 3 credits (4-credit option available). M-F 2-3:15. K. Hodges.
- 252 Public Opinion (U)** 3 credits (4-credit option available). M-F 11-12:15. A. Bibliowicz.
- 489 (also Psych 489) Seminar: Selected Topics in Social Psychology (U,G)** 4 credits. T R 12:30-2:45. S. Jones.

THEATRE ARTS

- 200 Dance and Movement for the Theatre (U,G)** 3 credits. M-F 12:30-1:45, plus two composition classes per week. J. Morgenroth.
- 242 Introduction to the Theatre (U,G)** 3 credits. M-F 11-12:15. J. Haarstick.
- 287 Summer Acting Workshop (U,G)** 3 credits. Sec. 1 M-F 9:30-10:45, E. Johnson; sec. 2 M-F 11-12:15, R. Shank; sec. 3 M-F 11-12:15, A. Van Dyke.
- 328 The Theatre of Gilbert and Sullivan (U,G)** 3 credits. M-F 11-12:15. F. M. Ahl and staff.
- 338 Modernism in the Theatre (U,G)** 4 credits. M-F 9:30-10:45. S. Williams.
- 377 Fundamentals of 16mm Filmmaking (U,G)** 4 credits. T R 12:30-3:30. M. Rivchin.

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 16–August 8

CHEMISTRY

- 251 Introduction to Experimental Organic Chemistry (U)** 2 credits. June 16–August 8. Lab T R 1:25–4:25; lab-lectures M–W 10–10:50.
- 251 Introduction to Experimental Organic Chemistry (U)** 2 credits. June 16–July 11. Lab M T W R 1:25–4:25 and F 8–11; lab-lectures M–F 11–12. C. F. Wilcox and assistants.
- 252 Introduction to Experimental Organic Chemistry (U)** 2 credits. July 14–August 8. Continuation of Chem 251.
- 253 Elementary Organic Chemistry (U)** 4 credits. June 16–August 8. Lectures M T W R 8–9:50. C. F. Wilcox and assistants.
- 255 Elementary Organic Chemistry (U)** 2 credits. June 16–August 8. Lectures M T W R 8–9:50. C. F. Wilcox and assistants.

ENGINEERING

CHEMICAL ENGINEERING

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

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)** 3 credits. M–F 8–8:50.
- 422 Applicable Mathematics (U)** 4 credits. M–F 11–11:50.

PHYSICS

- 101 General Physics (U)** 4 credits. June 16–July 11 or June 16–August 8. Audiotutorial; one group meeting on June 16, 9:30–10:45.
- 102 General Physics (U)** 4 credits. July 14–August 8 or June 16–August 8. A continuation of Phys 101.
- 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.

ADVANCED PLACEMENT PROGRAM FOR SECONDARY SCHOOL JUNIORS

June 24–August 8
Contact: C. Jermy, Jr., 105 Day Hall.

ADVISING SYSTEMS IN HIGHER EDUCATION

June 2–6 or June 16–20
Contact: Director, Advising Systems, 105 Day Hall.

AEROSPACE STUDIES (AFROTC)

June 2–August 8
Courses to be arranged
Contact: Department of Aerospace Studies, 113 Barton Hall.

KEYS TO AGRICULTURAL DEVELOPMENT AT THE LOCAL LEVEL

August 3–15
Contact: L. Zuidema, 252 Roberts Hall.
R Soc 871 Informal Study (G) 2 credits.

AGRICULTURAL AND OCCUPATIONAL EDUCATION

July 7–August 8
Contact: R. Tenney, 202 Stone Hall.

ONE-WEEK COURSES: JULY 7–11

- Ag En 416 Light Earth-Moving Equipment Operation and Maintenance (U,G)** 1 credit. M–F 8–12, M T W R 1–5. E. W. Foss.
- 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.
- Ent 413 Diseases and Pests of Woody Ornamental Plants (U,G)** 1 credit. M–F 9–12, 1–4. W. T. Johnson and G. W. Hudler.

THREE-WEEK COURSES: JULY 14–AUGUST 1

- Ag Econ 407 Agricultural Business Financial Management Systems (U,G)** 2 credits. M–F 8–9:50. C. A. Bratton.
- Ag En 411 Fundamentals and Maintenance of Diesel Tractor Fuel Systems (U,G)** 2 credits. M–F 10–11:50, T R 1–4. F. G. Lechner.
- Educ 634 Adult Education Programs: Organization and Direction (U,G)** 2 credits. M–F 10–12. H. R. Cushman.
- Educ 533 Curriculum in Agricultural and Occupational Education (U,G)** 2 credits. M–F 8–9:50. W. E. Drake.

ONE-WEEK COURSE: AUGUST 4–8

- Educ 630 Special Problems in Agricultural Education: Workshop for Supervising Teachers (U,G)** 1 credit. M–F 8:30–11:30, M T W R 1:30–4. A. L. Berkey and W. E. Drake.

JULY 7–AUGUST 8

The following courses are available any or all of the weeks of the program:

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 with, and approved by, the faculty member who will assume responsibility for supervising the work. 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.

ARCHAEOLOGICAL FIELD PROGRAM IN CYPRUS

June 2–August 8
Contact: J. E. E. Coleman, 25A Goldwin Smith Hall.

Anthr 358 (also Arkeo 358) Archaeological Research Methods (U,G) 4 credits. M–F 9:30–12.

Arkeo 360 (also Class 360) Field Archaeology in Cyprus (U,G) 6 credits. J. E. E. Coleman.

ARCHAEOLOGY FIELD SCHOOL IN ITHACA

June 25–August 8
Contact: Director, Archaeology Field School in Ithaca, 105 Day Hall.

Arkeo 314 Archaeology Field School in Ithaca (U,G) 8 credits. M–F 8:30–5:30. D. Jones.

MEASURED DRAWING

TRAINING SESSION IN ROME, JUNE 2–28
Contact: W. W. Cummer, 122A Sibley Hall.

Arch 485 Measured Drawing in Rome (U,G) 6 credits. W. W. Cummer.

FIELD SESSION, JUNE 2–AUGUST 16
Contact: W. W. Cummer, 122A Sibley Hall.

Arch 484 Practice in Architectural Aspects of Archaeological Field Work (U,G) 4 to 6 credits. W. W. Cummer.

FIELD ARCHAEOLOGY IN ISRAEL

July 13–August 8
Contact: D. I. Owen, Rockefeller Hall.

NES 386 Introduction to Field Archaeology in Israel (U,G) 6 credits.

INTRODUCTORY PROGRAM IN ARCHITECTURE

June 25–August 8
Contact: Director, Introductory Program in Architecture, 105 Day Hall.

SUMMER ARCHITECTURE DESIGN PROGRAM

June 2–July 28
Contact: Director of Summer Programs, Department of Architecture, 143 East Sibley Hall.

Arch 200, 201, 202 Elective Design (U) 8 credits each. M–F 9–12, 1–5.

Arch 301, 302 Design V, Design VI (U) 8 credits each. M–F 9–12, 1–5.

Arch 401, 402, 501 Design VII, Design VIII, Design IX (U) 8 credits each. M–F 9–12, 1–5.

Arch 601, 602 Special Program (U) 9 credits each. M–F 9–12, 1–5.

Arch 711, 811 Problems in Architectural Design (G) 9 credits each. M–F 9–12, 1–5.

Arch 730 Architectural Theory (G) 3 credits. To be arranged.

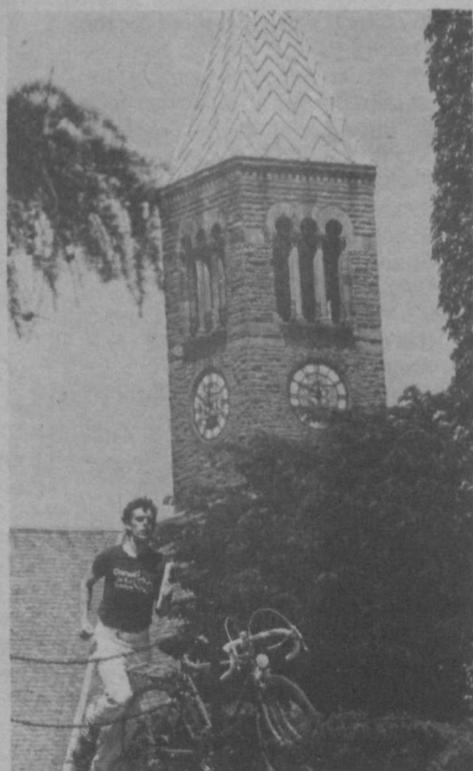
ASIAN LANGUAGE PROGRAM

June 11–August 12
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. Jordan and staff.

Chin 201–202 Intermediate Chinese (U,G) 4 credits each. Time to be arranged. J. McCoy and staff.



HOW TO GET A BOOK PUBLISHED

July 7-11

Contact: How to Get a Book Published, 105 Day Hall.

CORNELL SUMMER INSTITUTE IN MODERN CELTIC LANGUAGES

June 25-August 8

Contact: Director, Summer Celtic Institute, 105 Day Hall.

Celtic Studies 400 Introduction to Celtic Culture and Civilization (U,G)

3 credits. M-F 3:30-4:45. B. L. Jones, G. Ó Cruaíoch, and visiting lecturers.

Gaelic (Irish) 131 Introduction to Modern Gaelic (Irish) I (U,G)

3 credits. June 26-July 17. M-F 8-9:15, 11-12:15.

Additional drill sessions to be arranged. G. Ó Cruaíoch and staff.

Gaelic (Irish) 132 Introduction to Modern Gaelic (Irish) II (U,G)

3 credits. July 18-August 8. M-F 8-9:15, 11-12:15. Additional drill sessions to be arranged.

G. Ó Cruaíoch and staff.

Welsh 131 Introduction to Modern Welsh I (U,G)

3 credits. June 26-July 17.

M-F 9:30-10:45, 2-3:15. Additional drill sessions to be arranged. B. L. Jones and staff.

Welsh 132 Introduction to Modern Welsh II (U,G)

3 credits. July 18-August 8.

M-F 9:30-10:45, 2-3:15. Additional drill sessions to be arranged. B. L. Jones and staff.

COLLEGE SKILLS PROGRAM

June 24-August 8

Contact: Director, College Skills Program, 105 Day Hall.

Engl 240 Tutorials in Literature and the Humanities (U) 1, 2, or 3 credits.

S. Youra and staff.

COMMUNICATION FOR THE PROFESSIONAL

June 2-24, June 26-August 8

Contact: S. A. White, Communication Arts Graduate Center, 640 Stewart Avenue.

C Art 460 Video Communication for the Professional (G) June 2-24. 1 credit per module.

C Art 461 Advanced Video Communication for the Professional (G) June 26-August 8. 2 credits per module.

Module I Integrating Media: Theory and Planning June 2-24 and June 26-August 8: M T W R 11-12.

Module II The VTR Portapak June 2, 4, 11: M W 1-4; June 26-August 8: M W 1-3.

Module III Photography for Video Input June 2-24 and June 26-August 8: T R 1-3.

Module IV Super-8mm Filmmaking June 2-24 and June 26-August 8: T R 9-11.

Module V Script and Copy Writing June 2-24 and June 26-August 8: T R 3-5.

Module VI Studio Video Production June 2-24 and June 26-August 8: W F 9-11.

Module VII Video Postproduction and Electronic Editing June 13, 16, 18: M W F 1-5.

COMMUNICATION PLANNING AND STRATEGY

July 20-August 8

Contact: R. D. Colle, Communication Arts Graduate Center, 640 Stewart Avenue.

C Art 680 Communication Planning and Strategy (G) 3 credits.

COMPUTERS AND SMALL LOCAL GOVERNMENTS

June 16-18

Contact: Program in Urban and Regional Studies, 209 West Sibley Hall.

CORNELL ALUMNI UNIVERSITY

July 6-August 9

Contact: G. M. McHugh, 626B Thurston Avenue.

LECTURE-SEMINARS

The Seductiveness of Evil, July 6-12 and July 13-19.

The China Difference, July 20-26 and August 3-9.

Sociobiology and Modern Darwinism, July 27-August 2.

ORNITHOLOGY FIELD SEMINARS

Beginning Ornithology, June 1-7.

Intermediate Ornithology, June 8-14.



SPECIAL INTEREST PROGRAMS

July 6-12

Advanced Ornithology
Daypacking on the Finger Lakes Trails
Easy and Elegant
Horse Care

July 13-19

Aspects of Modern Sculpture: From Rodin to Seley
Cinema: The Birth and Early Years of American Comedy
Ensemble Singing
Finger Lakes—Day Trips by Canoe and Trails
Gourmet Cooking

July 20-26

All about Plants
Nature Photography
Nutrition Facts and Fantasies
Wines, Breads, and Cheeses

July 27-August 2

Ancient Wit
Chamber Music
Estate Planning
Nature—Naturally!

August 3-9

Dog Care and Management
International Cuisine
Investment Strategy
Popular and Practical Archaeology
Emergencies in Clinical Medicine

WEEKLY YOUTH PROGRAM

July 6-August 11

Contact: G. M. McHugh, 626B Thurston Avenue.

COSEP PREFRESHMAN SUMMER PROGRAM

June 23-August 8

Contact: Learning Skills Center, 375 Olin Hall.

SPECIAL PROGRAM IN EDUCATION

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

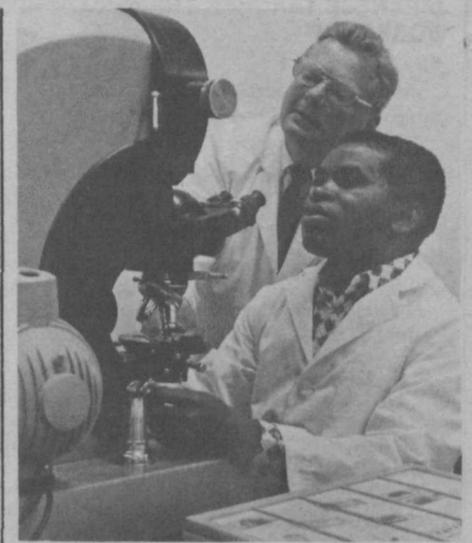
Educ 629 Comparative Extension Systems: Structural-Functional Perspectives (G) 3 credits. June 2-24. M-F 9-12. J. L. Compton.

Educ 613 Effective Human Interaction (U,G) 2 credits. June 2-6. M-F 9-4:30. D. E. Hedlund.

Educ 744 Faculty Development: Improvement of College Teaching (G) 2 credits. June 9-13. M-F 9-4:30. D. B. Gowin, J. P. Bail, J. D. Novak, D. Way.

Educ 618 Adult Development and Learning (G) 2 credits. June 16-27. M-F 9-1:30. R. E. Ripple and R. L. Bruce.

Educ 615 Seminar in Applied Behavioral Science: Counseling the Adult Learner (U,G) 1 credit. July 7-11. M-F 9-3. H. C. Veres.



HEALTH EXECUTIVES DEVELOPMENT PROGRAM

June 16-27

Contact: D. R. Brown, Graduate School of Business and Public Administration, Malott Hall.

SUMMER INSTITUTE ON HISTORIC PRESERVATION PLANNING

June 16-20

Contact: L. Jensen, 209A West Sibley Hall.

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

THE CENTER FOR PROFESSIONAL DEVELOPMENT IN HOTEL AND RESTAURANT ADMINISTRATION

June 16-August 1

Contact: College Registrar, School of Hotel Administration, 137 Statler Hall.

HUMAN ECOLOGY COURSES

HUMAN SERVICE STUDIES

Contact: J. Pedersen, Martha Van Rensselaer Hall.

HSS 203 Groups and Organizations (U) 3 credits. June 25-August 8. M-F 11-12:15. Staff.

HSS 292 Research Design and Analysis (U,G) 3 credits. June 25-August 8. M-F 9:30-10:45. Staff.

HSS 607 Professional Improvement I (U,G)

Sec. 1 Teaching Human Sexuality 1 credit. June 23-27. M-F 9-12, 1-4:30. Eggleston.

Sec. 2 Teaching Reading Skills in Content Areas 2 credits. June 23-July 3. M-F 9-12, 1-4:30. Conway.

Sec. 3 Imaginative Literature: A Resource for Home Economics Educators 1 credit. July 7-11. M-F 9-12, 1-4:30. Olshan.

HSS 681 Current Issues in Home Economics Education (U,G)

Sec. 1 Policy and Legislation on Home Economics Education 1 credit. June 30-July 3. M T W R 9-12, R 1-4. Minot.

Sec. 2 An Ecological Approach to Teaching 1 credit. July 7-11. M-F 9-12. Staff.

FIELD STUDY OFFICE

Contact: T. Stanton, Martha Van Rensselaer Hall.

Inter 409 Field Study in Organizations That Deliver Goods and Human Services 8 credits. June 13-August 8.

NUTRITIONAL SCIENCES

Contact: M. Pimentel, Martha Van Rensselaer Hall.

NS 607 Nutrition Update (G) 2 credits, plus 30 hours continuing education credit from American Dietetic Association. July 7-18. M-F 9-12, 1-4. M. A. Morrison and staff.

INDIVIDUALIZED STUDY IN EDUCATION

Educ 400 Field Experience (U) 1 to 4 credits, as arranged.

Educ 500 Informal Study (U,G) Credit and hours to be arranged.

Educ 600 Internship in Education (G) 2 to 6 credits, as arranged.

ENGINEERING COOPERATIVE PROGRAM

May 27-August 22

Contact: Program Secretary, Engineering Cooperative Program, 105 Hollister Hall.

ENGINEERING SHORT COURSES

Contact: R. H. Lance, Carpenter Hall.

ENGLISH AS A SECOND LANGUAGE

June 25-August 8

Contact: Director, English as a Second Language, 105 Day Hall.

Engl 101 English as a Second Language (U,G) 6 credits. M-F 8. M. A. Martin.

Engl 102 English as a Second Language (U,G) 6 credits. M-F 8. M. A. Martin.

EXECUTIVE DEVELOPMENT PROGRAM

June 16-July 18

Contact: J. Thomas, Malott Hall.

FRESHMAN SUMMER-START PROGRAM

June 25-August 8

Contact: C. Jermy, Jr., 105 Day Hall.

JAPANESE TEACHER TRAINING WORKSHOP

July 7-August 1

Contact: E. H. Jorden, Morrill Hall.

Japan 403 Teaching of Japanese as a Foreign Language (G) 4 credits. Time to be announced. E. Jorden and staff.

SUMMER LATIN INSTITUTE

June 2-August 8

Contact: Summer Latin Institute, 105 Day Hall.

Latin 107 Intensive Latin 6 credits. June 2-July 3. Lectures M-F 9-10:15, 10:45-12. Drill and review session M-F 3-4, 4:15-5:15. D. Malone and staff.

Latin 205 Intermediate Latin 3 credits. July 7-August 8. M-F 9-10:15, 10:30-11:30. D. Malone.

Latin 230 Latin Readings 3 credits. July 7-August 8. M-F, one hour daily between 3 and 5. Staff.

CORNELL LAW SCHOOL PRELAW PROGRAM

June 9-July 22

Contact: E. F. Roberts, 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 498 Environmental Law (U) 3 credits. M-F 10:45-12. R. Booth.

MARINE SCIENCE PROGRAM, 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 15-21. C. Tucker.

Bio S 312 Anatomy and Behavior of the Gull (U,G) 2 credits. May 22-June 4. J. Baumel and staff.

Bio S 343 Field Phycology (U,G) 4 credits. July 1-21. P. Sze.

Bio S 362 Chemical Oceanography in the Field (U,G) 4 credits. July 1-21. T. Loder.

Bio S 363 Field Marine Science for Teachers (U,G) 1 credit. July 8-14. R. Zottoli and staff.

Bio S 364 Field Marine Science (U,G) 6 credits. Sec. 1 May 29-June 25, A. Borror; sec. 2 July 29-August 25, L. Poffack.

Bio S 365 Underwater Research (U,G) 3 credits. August 14-27. L. Harris.

Bio S 384 Invertebrate Embryology (U,G) 4 credits. May 22-June 11. D. Burgess.

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

MILITARY SCIENCE (AROTC)

June 2-21 or July 21-August 9

Contact: D. Cranz, 101 Barton Hall.

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

PROGRESSIVE PLANNING SUMMER PROGRAM

June 2-June 20

Contact: P. Clavel, 105 Day Hall.

CRP 642 Critical Theory and Planning Theory (U,G) 3 credits. M-F 9:30-12. J. Forester.

CRP 719 Planning: A Progressive Introduction (U,G) 1 credit. M W 1-3. P. Clavel and staff.

CRP 749 Neighborhood Housing Strategies (U,G) 3 credits. M-F 9:30-12. C. Hartman.

CRP 759 Community Economic Development (U,G) 3 credits. M-F 9:30-12. R. Schramm.

CRP 784 The Political Economy of Health Planning (U,G) 3 credits. M-F 9:30-12. S. Kelman.

CRP 789 Video and Film for Community Development (U,G) 3 credits. M-F 9:30-12. T. Kennedy.

WORKSHOP IN PROPOSAL WRITING AND GRANT APPLICATION PROCEDURES

July 7-11

Contact: Proposal Writing, 105 Day Hall.

FIELD WORK IN PSYCHOLOGY

June 2-August 8

Contact: R. D. Mack, 236 Uris Hall.

Psych 328 Continuing Field Work in Psychopathology and the Helping Relationship (U,G) 6 credits. R. D. Mack.

PSYCHOBIOLOGY: PRACTICUM IN NEUROPSYCHOLOGY

May 26-June 27

Contact: B. P. Halpern, 210 Uris Hall.

Psych 521 Psychobiology: Practicum in Neuropsychology (U,G) 4 credits. Time to be arranged. B. Finlay, B. P. Halpern, and staff.

WORKSHOP IN PSYCHOLOGICAL TESTING

May 26-June 24

Contact: Psychological Testing Workshop, 105 Day Hall.

Psych 543 Psychological Testing (G) 4 credits. M-F 10-12:30. W. White.

SHAKESPEARE AND THE PRODUCTIONS AT STRATFORD, ONTARIO

June 2-June 28

Contact: Shakespeare and Productions, 105 Day Hall.

Engl 429 (also Theat 429) Shakespeare and the Productions at Stratford, Ontario 6 credits. M-F 9:30-11:30, 1:30-3:30. T. Murray.

SMALL TOWN REVITALIZATION WORKSHOP

June 23-25

Contact: L. Jensen, 209A W. Sibley Hall.

SUMMER SEMINAR ON THE SUTRAS

June 2-20

Contact: Summer Seminar on the Sutras, 105 Day Hall.

Asian 353 (U,G) 4 credits. M-F 8:30-10:10, 11-12:40, 3-4:40.

VIOLA DA GAMBA PROGRAM

July 15-24

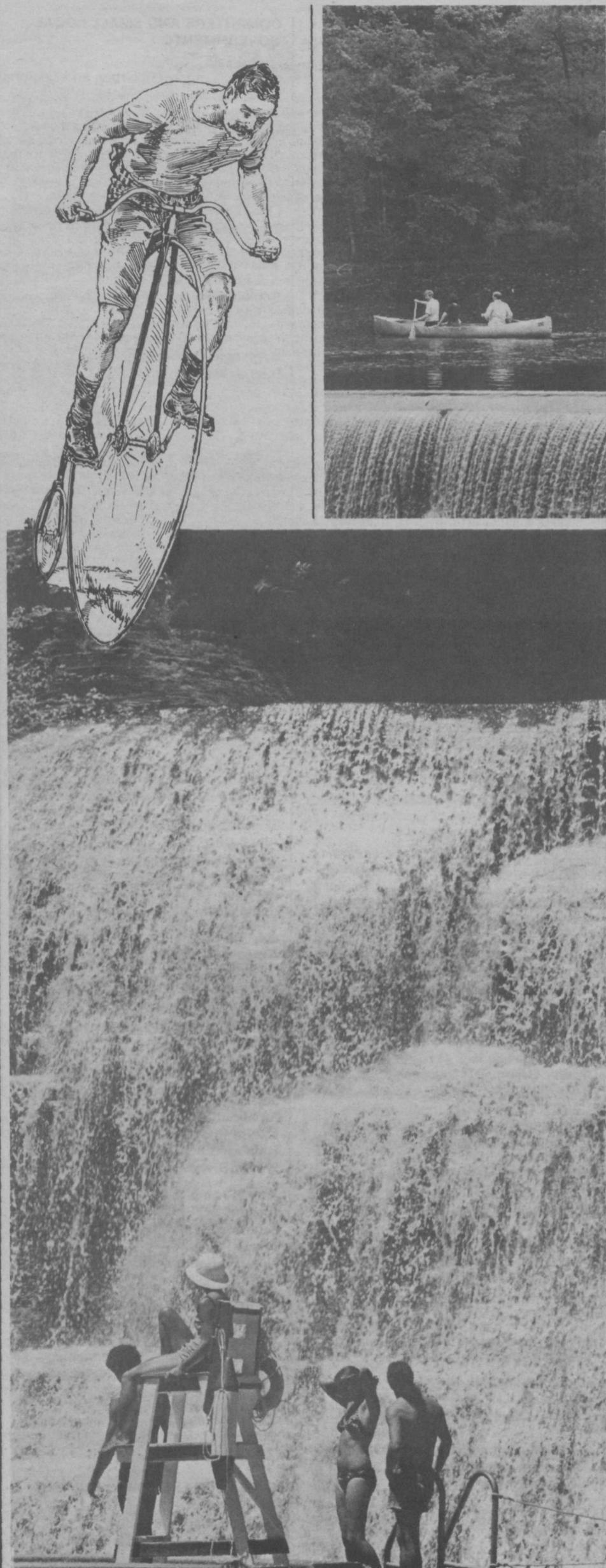
Contact: J. Hsu, Department of Music.

STRATEGIES AND METHODS OF WILDERNESS MANAGEMENT

June 1-July 2

Contact: Wilderness Management, 105 Day Hall.

Ntres 501 Strategies and Methods of Wilderness Management 4 credits. M. Hamilton.



Sponsored Programs

The Office of Sponsored Programs, 123 Day Hall, 6-5014, announces the following descriptions of programs and deadlines.

National Science Foundation

The National Science Foundation is seeking preliminary proposals to its Research in Science Education (RISE) program. Preliminary proposals can be submitted at any time, but 7-9 months must be allowed before a project could begin. Areas of current program interest are: science education for the early adolescent; science for women, minorities, and physically handicapped; science literacy; technology in science education; and cognitive processes and the structure of knowledge. Topics should be relevant to science and/or mathematics education. Proposals for research must demonstrate close, direct and realistic ties to science education or to education in the sciences. Proposals should be aimed at developing fundamental and general knowledge, and the research should focus on issues of national importance or of fundamental significance to science education research. Awards are made within two categories:

Category I — Research Evaluation and Synthesis. These studies are to provide comprehensive syntheses of already existing research that may have implications for science education. Proposals in this category go beyond a compilation and review of literature to include critical syntheses of research with a view to developing theory, improving practice, identifying promising lines of investigation and fruitful research questions.

Category II — Empirical Research. This category supports a limited number of promising empirical research projects. The main body of the proposal should contain a detailed statement of the work to be undertaken and should include: objectives, rational, and expected significance; relation of the proposed investigation to the present state of knowledge in the field, to previous work done, and to related work in progress elsewhere. The statement should outline the general plan of work, including the broad design of experiments to be undertaken and an adequate description of methods and procedures.

Previous RISE projects have been funded at amounts ranging from \$21,000 for periods of from 12 to 36 months. A preliminary proposal, not to exceed 10 double-spaced typewritten pages altogether, should be submitted to enable NSF staff to determine whether the proposed project has relevance to the Foundation's goals. For further information and more detailed program guidelines contact the Office of Sponsored Programs, 123 Day Hall.

National Science Foundation

The long term goal of the Development in Science Education (DISE) Program is to increase the quality and diversity of science education. It provides funding to originate, develop and experiment with new ideas having potential for improving science education. The five areas that will be specifically focused on for FY 1980 are: science for the early adolescent; improving access to careers in science for women, minorities and the physically handicapped; science literacy, and science technology and society; new knowledge and new skills — education for productivity; technology for science education; and continuing education.

Activities supported by DISE include: development, testing, and evaluation of new instructional materials; design, testing, and evaluation of innovative instructional delivery modes both in formal school settings and in out-of-school situations; and identification of technologies that promise enhanced effectiveness of science education.

Preliminary proposals are required and may be submitted at any time; 7-9 months should be allowed before a requested start date.

More information is available in the Office of Sponsored Programs, 123 Day Hall.

NSF-NIE

The National Institute of Education

(NIE) and the National Science Foundation (NSF) are initiating a joint program of development and research to improve the teaching and learning of school mathematics through the use of modern information-handling technology. The purpose is to capitalize on the strengths and the vision of investigators as to how modern information-handling devices can best facilitate the instructional process in mathematics.

Primary emphasis is on the development of prototypes of educationally relevant software, instructional courseware, and methods for assessing students' progress. These should respond to pedagogical needs and opportunities, and be developed with the involvement of students and teachers and appropriately modified on the basis of experience. Associated research aimed at improving our knowledge of mathematics teaching and learning processes is an essential element in the program. Grants are expected to fall in the range of \$25,000 and \$150,000.

Proposals are due at NSF by February 14, 1980. The next deadline date will be August 19, 1980. Further information is available from the Office of Sponsored Programs, 123 Day Hall.

OE/FIPSE

The fund for the Improvement of Postsecondary Education (FIPSE) has announced a January 29th postmarked deadline for preliminary proposals to the Comprehensive Program.

This program provides support for assessment, dissemination and evaluation activities for the improvement of postsecondary education which are comprehensive in scope, responsive, action-oriented and risk-taking.

The comprehensive program booklet is available for review in the Office of Sponsored Programs.

National Institutes of Health

The New Investigator Research Award (NIRA) Program is designed to encourage new investigators (including those who have interrupted early promising research careers) in basic or clinical science disciplines to develop their research interests and capabilities in biomedical and behavioral research within the program interests of the National Institutes of Health. To help bridge the transition from training status to that of established investigator, this special grant supported program provides research grant funds for relatively inexperienced investigators with meritorious research ideas.

These awards are restricted to individuals who have not previously been principal investigators on a PHS supported research project, although exceptions may be granted to individuals who are changing their field of scientific endeavor. The principal investigator must ordinarily have a doctorate degree or its equivalent. The applicant should have completed his or her formal professional education and usually will have no more than five years of research experience after completion of formal training at the time the award is made.

In review, particular attention will be given to the adequacy of the applicant's research and research training as a guide to future development into a creative independent investigator. The quality of the individual's past education, scientific training and commitment to a health-related career will be taken into account. The principal investigator's research proposal will be evaluated for scientific merit, originality, feasibility, adequacy of design and plans for analysis and evaluation of data.

Principal investigators must make a significant commitment of time or effort to the research project. In no case can this be less than 50%, and for most applicants a larger commitment is encouraged.

Salary support can be provided from the award up to \$25,000 plus fringe benefits according to the time or effort devoted to the project. Direct costs may be requested for up to three years of support. The total direct costs requested must not exceed \$107,500 for the three-

year period, no more than \$37,500 may be requested in any one year. Requested funds may not be used to supplement a project supported by other funds.

NIRA awards are made for periods up to three years and are not renewable.

Application receipt dates for this program are March 1, 1980; July 1, 1980; and November 1, 1980.

Further information, including program information, and application materials may be obtained from the Office of Sponsored Programs, 123 Day Hall, 256-5014.

The Office of Sponsored Programs has announced the following grants and contracts received from March 15-Sept. 19, 1979, for Ithaca and Geneva units of the University. It does not include continuations or renewals.

Abel, J.F., Structural Engr.: Stability of Cooling Tower Shells. Research Cottrell Inc. 2 years, \$35,032.

Aist, J.R., Plant Path: Cell Wall Appositions and Plant Disease Resistance. NSF. 2 years, \$60,000.

Aist, J.R., Plant Path: Cell Wall Appositions and Plant Disease Resistance. USDA. 2 years, \$35,000.

Armbruster, G., Nutrition: Evaluation of Performance Characteristics of Microwave Appliances in Cooking of Foods. Amana Refrigerators, Inc. \$16,892.

Baker, L.D., Agr. Engr.: Farm Bureau Safety Project. NY Farm Bureau. One year, \$10,230.

Balantyne, J.M. & Wagner, D.K., Electrical Engr.: Holographic Fabrication of Gratings in Metal Substances. NASA. One year, \$55,975.

Bauer, S.H., Chem: Vibration Relaxation Measurements of Directly...Symmetric States. NSF. One year, \$84,000.

Bland, R.G., Operations Research & Industrial Engr.: Studies in Linear Programming. NSF. One Year, \$31,940.

Brickman, R.J., SIS: Cross National Analysis of Public Policies Concerning Carcinogens and the Chemical Industry. NSF. 2 years, \$152,630.

Brussard, P.F., Ecology: Biochemical Systematics of Anadromous and Freshwater Lamprey Populations. Great Lakes Fishery Comm. One year, \$13,937.

Camhi, J.M., Neurobiology: Neuroethology, Plasticity and Development in the Escape System of the Cockroach. NSF. One Year, \$68,200.

Campbell, N.A., Genetics: Studies of Structural and Physiological Aspects of Leaf Movements. NSF. One year, \$48,071.

Campanot, R.B., Neurobiology: Control of Axon Development by Nerve Growth Factor. NIH. One year, \$43,947.

Capramica, R.R. Neurobiology: Sensory Physiology and Biophysics. NIH. One Year, \$14,200.

Capranica, R.R., Neurobiology: Underwater Sound Communication in the African Clawed Frog (*Xenopus*). NSF. 2 years, \$6,833.

Clardy, J.C., Chem.: Synthesis of Sesbanine—a Cytotoxic alkaloid. UIH. One Year, \$46,414.

Cohen, C. & F. Rodriguez, Chemical Engr.: High Shear Rate Flow Characterization of Polymer Systems. NSF. One year, \$16,000.

Colman, G.P., Library: Project with the Elderly. Tompkins County CETA. One year \$10,122.

Conneley, R. Math: Rigidity. NSF. 3 year, \$22,118.

Constable, R.L., Computer Sci: On Using Program Verifiers in Elementary Programming Instruction. NSF. 18 months, \$73,400.

Duke, W.B., Agr. Econ: Fundamental Plant Processes. Monsanto, One Year, \$12,500.

Eastman, L.F., Electrical Engr: Gallium Arsenide for Integrated Circuits. IBM. 3 years, \$332,393.

Engman, H.J., HDFS: Migrant Census, Parent Education, and Analysis. NYS Education. One Year, \$151,224.

Engman, H.J., HDFS: Migrant Medical Services Education. NYS Education. One year, \$92,493.

Engman, H.J., HDFS: Migrant Health and Nutrition Education. NYS Educa-

tion. One year, \$44,593.

Engman, H.J., HDFS: Medical and Dental Health Education in Niagara County. NYS Health. 7 months, \$10,445.

Ezersky, E.M., Coop. Ext: Development of Model Environmental Systems at Ecology Village, Gateway National Recreation Area. National Park Service. 17 months, \$32,489.

Farley, D.T., Electrical Engr: Studies of the Arcibo Atmosphere. NSF. One year, \$196,000.

Farrell, R.H., Math, Mathematical Statistics. NSF. One Year, \$49,665.

Feinstein, F., Floriculture: Tompkins County CETA. 6 months, \$22,461.

Finch, C.H., Library: Support Computer Processing in the NYS Historical Resources Survey. Bowers Foundation. One Year, \$3,000.

Fink, G.R., Biochem: Predoctoral Training Grant. NIH. One year.

Foss, E. W., Coop. Ext.: Household Heating Efficiency. NYS Energy. One year, \$40,000.

Frey, J., Electrical Engr: Fabrication of GaInAsP Microwave Transistors. NASA. One year, \$49,535.

Frey, J., Electrical Engr: Ultimate Limits on VLSI Technology: Device and Materials Physics. Army: Defense Serv. One year, \$50,905.

Frey, J., Electrical Engr: Measurements of Electron Transport Phenomena in Semiconductor Materials. Air Force Office of Scientific Research. One year, \$41,066.

Ganem, B., Chem: A New Class of Oxidants, Catalytic Epoxidations and Biometric Oxidations. NSF. One year, \$27,421.

Georgi, J.R., Vet: In Vitro Study of Fenbendazole and Piperazine vs. Resistant Equine Small Strongyle Species. Hoechst-Roussel Pharmaceutical. One year, \$2,000.

Gillespie, J.H., Vet: Equine Rotavirus Study. PitmanMoore. One Year, \$10,000.

Gold, T., Center for Radiophysics and Space Research: Theoretical Solar System Studies. NSF. 4 months, \$33,116.

Goldsmith, W.W., CRP: Research Support Aide. Tompkins County CETA. 6 months, \$23,886.

Gorewit, R.C., Animal Sci: Physiological and Environmental Factors Affecting Oxytocin Release in Lactating Cows. Dairy Equipment Company. One year, \$2,800.

Gossett, J.M. & Dick, R.I., Mechanical & Aerospace Engr: Characterization and Separation of Suspended Particles by Size. NSF. One year, \$20,100.

Grant, F.R., Chem: Special Agreement with General Electric for Research of Mutual Interest. General Electric. One year, \$5,000.

Greene, W.H., Economics: Theoretically Determined Error Specifications for Frontier Cost and Production Functions Estimation. NSF. One year, \$45,792.

Gregory, P., Plant Breeding: Biochemical Basis for Cytoplasmic Specificity in Southern Corn Leaf Blight. USDA. 3 years, \$70,000.

Gubbins, K.F. & Streett, W.B., Chemical Engr: Properties of Polyatomic Liquids and Their Mixtures from Computer Simulation and Theory. NSF. One year, \$65,863.

Haas, J.D., Nutrition: Adaptation to Fe Deficiency at High Altitude. NSF. One year, \$88,575.

Harrison, D.L., ILR Ext: Development of Affirmative Action Course for Office of General Services Personnel. Ofc. of Gen. Serv. Pers. 8 months, \$28,500.

Hoffmann, R., Chem: Molecular Orbital Theory of Organic and...and Their Reactions. NSF. One year, \$110,000.

Howland, H.C., Neurobiology: Refractive Studies of Human Eyes. NIH. One year, \$16,086.

Isacks, B.L., Geol. Sci: Seismotectonics of Subduction: Intensive Field Studies of the New Hebrides Arc Complemented by Comparative Studies of Other Zones of Lithosphere Subduction. NSF. One year, \$230,400.

Isacks, B.L., Geol. Sci: Investigation of the Seismicity Associated with the Subduction Zone Off Northeast Luzon Using a Temporary Seismograph Network. NSF. One year, \$82,781.

Isards, W., PURS/Economics: Static, Hierarchical and Dynamic Theory of Spatial Behavior. NSF. One year, \$41,106.

Jewell, W.J., Agr. Engr: Wastewater Treatment with Plants in Nutrient Films. EPA. 6 months, \$94,878.

Johnson, H.H., Materials Sci. & Engr: Hydrogen and Fatigue Properties of Steel. NASA. One year, \$45,000.

Johnston, R.E., Psych: Sensory Influences on Reproductive Behavior in Animals. NSF. One year, \$41,505.

Jorden, E.H., Modern Languages: The Usage of Location Particles in Japanese. NSF. One year, \$10,475.

Karig, D.E., Geol. Sci: Structure and Evolution of the Zambales Ophiolite. NSF. One year, \$42,487.

Kay, R.W., Geol Sci: Petrology and Geochemistry of the Upper Units of the Zambales. NSF. One year, \$21,191.

Kelley, M.C. & Farlek, D.T., Electrical Engr: Development Phase Study of Plasma Depletion Experiments During the Spacelab 2 Mission. Incoherent Scatter Observations. Stanford University. \$19,000

Kelley, M.C., Electrical Engr: Analysis of the NOAA Alaskan MST Radar System. Air Force Office of Scientific Research. One year, \$51,000.

Kelley, M.C., Electrical Engr: Multi-experimental Studies of Wind and Wave Patterns in the Upper Atmosphere and Ionosphere. NSF. One year, \$116,004.

Khan, A.A., Geneva Exp. Station: Effects of PrePelleting Seed Treatments on Performance of Lettuce Seeds. Royal Sylvus. One year, \$2,000.

Kinsella, J.E., Food Sci: Regulation of Phospholipid Syntheses in animals. NSF. One year, \$48,888.

Kinsella, J.E., Food Sci: Relationship Between Dietary Fat and Enzymes of Prostaglandin Synthesis. USDA. 3 years, \$215,501.

Kohlstedt, D.L., Materials Science & Engr: Ceramic Fabrication Equipment Grant. NSF. One year, \$40,000.

Koslowski, B., HDFS: The Closing of Elementary Schools— Impact on Children and Parents. NSF. One year, \$13,351.

Kraut, R.F., Psych: Nonverbal Behavior in Social Interaction. NSF. One year, \$33,252.

Krumbansl, J., LASSP: Dynamics of Structural Phase Transitions in Ferroelectric and Similar Materials. Army Research office. One year, \$180,000.

Ku, W.H., Electrical Engr: Fundamental Device-Circuit Studies for Monolithic Microwave Integrated Circuits and Subsystems. Office of Naval Research. 3 years, \$180,000.

Kuckes, A.F., Applied & Engineering Physics: Electromagnetic Induction Sounding Experiments to Investigate the Earth's Lower Crust. NSF. One year, \$70,000.

Kuniholm, P.I., Classics: Tree Ring Chronologies for the Aegean and Adjacent Areas. NSF. One Year, \$27,990.

Kuniholm, P.I., Classics, Tree Ring Chronologies for the Aegean and Adjacent Areas. National Endowment for the Arts. 3 years, \$20,420, matching.

Kuniholm, P.I., Classics: Tree Ring Chronologies for the Aegean and Adjacent Areas. National Geographic Society. One Year, \$10,210.

LaBelle, R.L., Geneva Exp. Station: Food Science at Geneva. FMC Corp. 6 months, \$3,165.

Langhans, R.W. & Boodley, J.W., Floriculture: Nutrient Film Technique. Fred G. Gloeckner Foundation. One year, \$6,000.

Lassoie, J.P., Natural Resources: Field Fumigation of Hardwood Seedlings Using the Linear Gradient Exposure Method: Technique Development. USDA. One year, \$20,625.

Leavitt, T., Johnson Museum: Conservation Consultation. National Endowment for the Arts. One year, \$650.

Leavitt, I., Johnson Museum: General Operating Expenses. Office of Education. One Year, \$25,000.

Leavitt, T. & Press, Schools. National Endowment for the Arts. One year, \$11,630.

Lee, C.Y., Geneva Exp. Station: Sweet Corn—Vitamin A. Green Giant Co. 3 months, \$2,970.

Sponsored Programs

Lee, D.M., LASSP, Freed, J., Chem & McFarlane, R., Chem. Engr: Hydrogen Atoms and Other Simple Free Radicals at Low Temperatures and at High Magnetic Fields. NSF. One year, \$110,000.

Lein, D.H., Vet: Evaluation of a Test for Early Detection of Pregnancy in Mares. Wampole Labs. One year.

Lienk, S.E., Geneva Exp. Station: Orchard Mite Control. Merck Co. One year, \$1,250.

Levin, H., Psych: Study of the Language of Nurture and Affection. Spencer Foundation. 2 years, \$80,500.

Levin, R.L., Mechanical & Aerospace Engr: Differential Scanning Calorimeter for Cryobiological Research. NSF. One year, \$13,100.

Levin, R.L., Mechanical & Aerospace Engr: Grant-in-Aid. ASHRAE. One year, \$5,000.

Likens, G.E., Ecology: Acid Rain; An Analysis of Zooplankton Species Diversity and Standing. NSF. One year, \$5,979.

Lindmark, D.G., Vet: Biochemical Cytology of Giardia and Entamoeba. NIH. One year, \$43,150.

Long, F.A., STS: Seminar on Methodology for Science and Technology Sector Assessment in Least Developed Countries. AID. 3 months, \$9,900.

Lorbeer, J.W., Plant Path: Sclerotinia Disease of Lettuce. Oswego County Cooperative Improvement Association. 5 months.

Lorbeer, J.W., Plant Path: Lettuce and Onion Disease Control. CIBA GEIGY. 7 months, \$500.

Ludford, P.M., Veg. Crops: Physiological Control of Photosynthate Partitioning in Beans. USDA. 13 months, \$72,000.

Ludington, D.C., Agr. Engr: Heat Exchangers for Water Heating on Dairy Farms. Agway Inc. One year, \$5,450.

Lust, B.C., HDFS: Constraint on Anaphora in First Language Acquisition: Study of Six Languages. NSF. One year, \$50,000.

Mahr, H., LASSP: Ultrafast Electronic Relaxation of Highly Photoexcited Materials. NSF. One year, \$39,000.

McBride, M., Agron: Molecular Probes for Elucidating Migration Mechanisms. Chevron Oil. One year, \$5,000.

Martin, L.B., Library: Strengthening of Research Libraries. OE. One year, \$194,897.

Martin, L.E., & Brumberg, G.D., Library: Historians-In-Residence and Historical Resources Survey. NYS Arts. One year, \$26,000.

Martin, L.E. & Brumberg, G.D., Library: Historians-In-Residence. NY Council for the Humanities. One year, \$40,760.

Martin, L.E. & Brumberg, G.D., Library: NY Historical Resources Center Survey. General Services Administration. One year, \$43,216.

Martin, L.E., Library: College Library Resources Program. NYS Education. One year, \$15,000.

Meinwald, J., Chem: Firefly/Bufladienolides: Potential Cardiotonic Agents. American Heart Assn. One year, \$5,000.

Metz, J.F., IAD: Title XII Strengthening Grant. AID. 5 years, \$500,000.

Miller, D.D., Food Sci: The Bioavailability of Iron and Zinc from Foods. NSF. 2 years, \$111,057.

Mirin, L.J., Architect: Travelling Exhibit-NYS Landscape Architecture. NYS Arts. One year, \$2,500.

Mitchell, O.S., ILR: A Microeconomic Analysis of Voluntary Labor Mobility. US Labor. One year, \$21,882.

Moraff, H., Vet: Operation of Veterinary Medical Data Program. Assoc. of Vet Medical Data Program. 3 years, \$356,122.

Morse, R.A., Entomology: Vespidae Venom Collection. NIH. One year, \$20,652.

Moyer, J.C., Geneva Exp. Station: Plum Juice Grant. Gerber Products Co. One year, \$1,500.

Munger, H.M., Plant Breeding: Amaranth Breeding Studies. Organic Gardening & Farming Research Center. 2 years, \$13,000.

Neisser, U., Psych: Comprehensive Cognitive Psychology Training Program. ADAMHA. One year, \$42,837.

Obendorf, R.L., Agron: Lab Techni-

cian Trainee. Tompkins County EOC: Title 2B. PSE Position. 6 months, \$4,079.

Oliver, J.E., Geological Sci: Research of Precise Leveling, Space Geodesy & Geodynamics. NASA. One year, \$60,000.

Petrovic, A.M., Floriculture: Turf-grass Management Studies. NYS Turf-grass Assn. One year, \$500.

Porter, K., Center for Environmental Research: Assessment of Sources of Nitrogen in the Huntington 201 Planning Area. Holzmacher, McLendon & Murrell. 5 months, \$2,500.

Raj, R., Materials Science & Engr: Failure by Creep Cracking and Creep-Fatigue Interaction. Air Force Office of Scientific Research. One year, \$67,806.

Regenstein, J.M., Poultry Sci: Elimination of Formaldehyde Formation in Red Hake. Dept. of Commerce, NOAA. One year, \$30,319.

Rivers, J.M., Nutrition: Ascorbic Acid: Development of the Guinea Pig Model. NIH. One year, \$41,255.

Rodriguez, F., Chem. Engr: Study of Polymerization Systems. Eastman-Kodak Co. One year, \$20,000.

Roland, C.M., Coop. Ext: Community Leadership Development Program. NYS Education. 3 months, \$1,936.

Ruoff, A.L. & Ashcroft, N.W., Materials Sci. & Engr: Equation of State of Simple Metals. Army Research Office, \$33,105.

Sachse, W. & Pao, Y.H., Theoretical & Applied Mechanics: Studies of Acoustic Emission. NSF. 2 years, \$176,376.

Salton, G., Computer Sci: Fast Computational Processes in Information Retrieval. NSF. One year, \$29,605.

Saltzman, S. & Heron, K., Architecture: Cornell Work Study Program. NYS Dept. of State. One year, \$67,500.

Sangrey, D.A., Structural Engr: Development of Marine Geotechnical Engineering Procedures. U.S. Geological Survey. 9 months, \$16,002.

Sangrey, D.A., Structural Engr: Geotechnical Analysis of Offshore California Sediments. U.S. Geological Survey. 6 months, \$8,400.

Santner, T.J., Operations Research & Industrial Engr: Statistical Analysis of Life Data from Engineering and Related Systems. NSF. One year, \$58,500.

Scheinman, L., STS: Non-Proliferation and Nuclear Safeguard Studies. Arms Control and Disarmament Agency. 6 months, \$10,000.

Schmidtman, E.T., Entomology: House Fly Project. NYS Poultry Industry. One year, \$4,000.

Shuler, M.L., Chem. Engr: Holographic Fabrication of Gratings in Metal Substances. NASA. One year, \$55,975.

Siegel, B.M., Applied Engr: Digital Image Processing of High Resolution Electron Microscope Images. NSF. One year, \$87,025.

Slauson, D.O., Vet: Mechanisms of Deep Lung Clearance in Cattle and Calves. USDA. 3 years, \$72,550.

Stein, S., PURS/Architecture: Design; Communication and Analysis. NEA. One year, \$28,910.

Streitt, W.B., Chem. Engr: Program on Vapor-Liquid Equilibrium of Dimethyl ether, Methanol, and other Synthetic Gas Components. Mobil Corp. 5 months, \$20,000.

Storm, B., Law: Cornell Legal Aid. Office of Education. One year, \$37,000.

Sudan, R.N., Lab of Plasma Studies: Theoretical Study of Ionospheric Irregularities and Plasma Instabilities in the Magnetosphere. NSF. One year, \$67,800.

Tashiro, H., Geneva Exp. Station: Hyperodes Scarabaeid Grant. D.M. Scott & Sons. One year, \$1,000.

Tennant, B.C., Vet: Acute Diarrheal Diseases of Neonatal Calves. USDA. 2 years, \$51,353.

Turcotte, D.L., Geological Sci: To Relate Measurements of Gravitk and Geoid Anomalies over the Oceans to Near Surface Density Distributions. Office of Naval Research. One year, \$20,162.

Turnquist, M.A., Environ. Engr: Control of Service Reliability in Bus Transit Networks. Northwestern University. 8 months, \$23,454.

Turnquist, M.A., Environ. Engr: Development of Hybrid Cost Functions Using Engineering and Statistical Techniques: The Case of Rail.

Northwestern Univ. 14 months, \$26,275.

Vanek, J., Center for International Studies: Creating and Sustaining Employment Through Worker Ownership and Producer Cooperatives in the U.S. U.S. Labor. 11 months, \$9,180.

Van-Tienhoven, A., Poultry Sci: Periodicity of Locomotion and Temperature. NSF. 2 years, \$54,819.

Walter, M.F., & Steenhius, T.S., Agr. Engr: Polyethylene Oxide-Based Polymers Applied to Agriculture. Shaklee Corp. 5 months, \$66,891.

Wertheimer, B.M., ILR Extension: Education for Career Development for Women. Chase Manhattan Bank. 3 years, \$350,000.

Whittle, D.C., Cooperative Extension: Preparation and Distribution of Weekly Energy Columns for Newspapers. NYS Dept. of Energy. One year, \$2,600.

Widom, B., Chem: Purchase of High-Field Multinuclear Magnetic Resonance Spectrometer. NSF. One year, \$155,000.

Young, R.J., Animal Sci: Development and Promotion in Dairy Livestock. NYS Agr. & Markets. 7 months, \$4,958.

The Office of Sponsored Programs announces the following new grants and contracts for the Ithaca and Geneva units of the University, received between September 19 and November 30, 1979.

R.L. Barker, Design & Environmental Analysis: Asbestos Substitute Fabrics for Safety Clothing. NIH. One Year, \$82,353.

R. Barker, Biosci: Membrane Oligosaccharides and Monosaccharide Metabolism. NIH. Four and 1/2 Months, \$12,000.

R.E. Bechofer, Operations Research: Multiple-Decision Ranking and Selection Procedures. Army Research Office, One Year, \$20,000.

S.V. Beckwith, Center for Radio-physics & Space Research: Molecular Spectroscopy from the Kuiper Airborne Observatory. NASA. Six Months, \$27,400.

R.J. Brickman, Science, Technology & Society: Public Policy, Carcinogens and the Chemical Industry. A Comparative Policy Analysis. Volkswagen Foundation. Two Years, \$61,749.

V.M. Briggs & F. Foltman, ILR: Emerging Research Findings and Future Trends in Apprenticeship Training. US Dept of Labor, One Year, \$26,140.

W.L. Brown, Jr., Entomology: Systematics of Nearctic Telenomus (Hymenoptera: Scelionidae). NSF, Six Months, \$3,362.

P.F. Brussard, Biosci: Influence of Ecological Factors on the Genetic Structure of Mycophora. NSF. 22 Months, \$4,845.

J. Burton, ILR: Permanent-Partial Disability Benefits. NYS Joint Labor Management Committee, Seven Months, \$41,000.

B.F. Chabot, Biosci: Student Research on the Environment and Natural Resources. Mellon Foundation, One Year, \$60,000.

L.L. Creasy, Pomology: The Inactivation of Phenylalanine Ammonia-Lyase. NSF, Two Years, \$63,007.

B.J. Edmonston, Center for International Studies: Effect of Differential Fertility on Infant and Child Mortality in Bangladesh, Jordan, and Peru. AID, Two Years, \$123,584.

R.G. Ehrenberg, ILR: Overtime Pay Provisions of Fair Labor Standards Act. US Dept of Labor, Minimum Wage Study Commission, 14 Months, \$55,900.

P.E. Eshelman, Design & Environmental Analysis: Development and Evaluation of Pictographic Symbols for Conveying Product Misuse Information. Corning Glass Works, Seven Months, \$17,720.

G.P. Fisher, Civil & Environmental Engineering: Development of a Marine Transportation Education Program. NOAA, National Sea Grant Program, One Year, \$4,552.

R.H. Foote, Animal Sci: Amikacin Sulfate Sperm Toxicity Study. Bristol Laboratories, Three Months, \$1,628.

C.G. Forshey, Geneva Expt Sta: Apple Grant. Dupont, One Year, \$700.

J.D. Gilpatrick, Geneva Expt Sta: Fungicide Grant. Kalo Laboratories, One Year, \$500.

J.D. Gilpatrick, Geneva Expt Sta:

Fungicide Grant. Boots Hercules Agricultural Chemicals Co, Nine Months, \$2,000.

L.T. Glickman, Vet: Toxocara Infection and Ocular Disease. NIH, Thirteen Months, \$86,130.

T. Gold, Center for Radiophysics & Space Research: Gas Migration in the Earth's Crust. Gas Research Institute, One Year, \$110,361.

W.W. Gunkel, Agricultural Engineering: Producer Gas Technology Applied to Wood Utilization. Dept of Energy, One Year, \$11,447.

J. Habicht, Nutrition: Statistical Methods for Research of Nutrient Requirements in Populations. USDA, Two Years, \$36,000.

G. Hausfater, Biosci: An Integrative Approach to Neurobiology and Behavior. NIH, One Year, \$70,135.

R.G. Helgesen, Entomology: Alfalfa Pests. FMC Corp. One Year, \$500.

R.A. Howard, Natural Resources: Analysis of Materials in Wildlife Extension Education. National 4-H Council, 11 Months, \$3,750.

M. Johnson, Consumer Economics & Housing: Advanced Energy Conservation Course Development. NYS Association of Realtors, Three Months, \$1,732.

D. Kohlstedt, Material Sci & Engineering: Structure and Rheology of Mantle Materials Partially Molten Rocks and Single Crystal Olivine. NSF, Two Years, \$125,000.

D.C. LaCapra, Center for International Studies: Conference on the Future of Intellectual History. National Endowment for the Humanities, One Year, \$9,601.

M. Lavine, Center for Environmental Research: Manual of Energy Analysis Methodology for Power Plant Siting. University of Florida, One Year, \$17,000.

I. Lazar, Human Services Studies: Lasting Effects After Pre-School; a Continuing Longitudinal Investigation. Health Services Administration, One Year, \$103,388.

R. Levin, Mechanical & Aerospace Engineering: The Thermodynamic Behavior of Biomaterials at Subzero Temperatures. The Whitaker Foundation, Three Years, \$93,080.

A. Lewis, Applied & Engineering Physics: Producing Hydrogen with a Bacteriorhodopsin Solar Energy Cell. Dept of Energy, One Year, \$83,510.

A. Lewis, Applied & Engineering Physics: Primary Events in Vision. Naval Air Systems Command, One Year, \$20,000.

G.E. Likens, Biosci: APEZ: Acid Precipitation Experiment. National Center for Atmospheric Research, Eight Months, \$8,955.

R.C. Lowhr, Agricultural Engineering: Land Treatment of Food Processing Wasted Under Non-Ideal Conditions. Nestle Enterprises, Inc, one Year, \$10,000.

R. Long & R. Hughes, Science, Technology & Society: Contributions of Multi-national Corporations to the Scientific and Technological Capabilities of Developing Countries. Dept of State, One Year, \$53,897.

J.W. Lorbeer, Plant Pathology: Onion Disease Control. Rohm & Haas Corp, One Year, \$1,000.

F.T. Luk, Computer Sci: Variable Metric Scant Updates from Matrix Factorization. Rice University, One Year, \$13,500.

J.B. Maas, Psychology: Editing of Half-Hour Version of Drunk Driving Film. NYS Division of Alcoholism & Alcohol Abuse, Three Months, \$16,000.

J.B. Maas, Psychology: Production and Distribution of Half-Hour Film: "Until I Get Caught". General Motors Corp, Ten Months, \$20,000.

R.E. MacDonald & Lindley, Biosci: Characterization and Isolation of a Light-Driven Sodium Pump from Membranes of Halobacterium halobium. Solar Energy Research Institute, One Year, \$84,123.

R.J. MacIntyre, Biosci: Nonsense Mutants at the AGlycerophosphate Dehydrogenase. NIH, One Year, \$52,592.

B. Mindick, Human Services Studies: Research on Adolescent Contraceptors as Related to Contraceptive Use-Effectiveness. Claremont Graduate School,

Four Months, \$8,525.

A.A. Muka, Entomology: Vegetable Insect Grant. FMC Corp. One Year, \$500.

M. Nelson, Biosci: Mechanisms of Sound Communication in a Simple System. NIH, One Year, \$35,961.

R.T. Oglesby, Natural Resources: Biological Availability of Sewage Phosphorous in Stream Sediments. NYS Dept of Environmental Conservation, One Year, \$6,826.

B. Osgood & D. Allee, Consumer Economics and Housing: Design and Implementation of Integrated Program of Study Tasks in the Tug Fork Valley. Army Corps of Engineers, Four Months, \$81,296.

W.S. Paine, Human Services Studies: Techniques of Monitoring Community Mental Health Centers. HEW, One Year, \$15,711.

R. Providenti, Geneva Expt Sta: CMV-Squash Test. RobsonSeed Farms, One Year, \$600.

J.M. Rivers, Nutrition: Vitamin C Requirements. USDA, Three Years, \$100,000.

S. Saltzman, Architecture: National Consumer Law Center. Contract for Services, Eight Months, \$23,000.

C.H. Shapiro, Human Services Studies: BSW Management Skills at Department of Social Services. OHDS, Administration for Children, Youth & Families. One Year, \$29,835.

C.J. Sniffen, Animal Sci: Effect of Silage Savor on the Nutritive Value of Corn Silage Treated with Cold Flow Ammonia. Kemin Industries, Twenty-three Months, \$9,700.

H.C. Veres, Education: Staff Development Materials for Vocational Educators of Adults. NYS Dept of Education, One Year, \$43,271.

L.A. Wager, Vet: Protocol for the Evaluation of Penicillin and Cloxacillin for the Treatment of Mastitis in Lactating Cows. Philips Roxane Inc, Seven Months.

W.W. Webb, Applied & Engineering Physics: Dynamical Micro-spectrofluorimetry System. NIH, One Year, \$91,000.

Graduate Bulletin

The next regular meeting of the Graduate Faculty will be held at 4:30 p.m. on Friday, Feb. 1, in Kaufmann Auditorium of Goldwin Smith Hall to approve the provisional degree list for 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 Feb. 8. This includes filing two acceptable copies of the thesis in the Graduate School office.

Late registration is being held Mon. and Tues., Jan. 21 and 22 in Barton Hall. Starting Wed., Jan. 23 late registration will be at the Registrar's Office, 222 Day Hall. A \$10 processing fee will be charged starting Jan. 21.

Grades for graduate students for fall 1979 are available at Sage Graduate School office.

All graduate students must turn in course registration forms at Sage Graduate Center by Feb. 8. File forms early and avoid long lines.

Applications for 1980-81 Cornell Graduate Fellowships are available at the Fellowship Office, 116 Sage Graduate Center. This form should be used by any matriculated graduate student who wishes to apply for fellowships offered by the Graduate School for the 1980-81 academic year. Completed applications and references must be submitted to the appropriate graduate faculty representative by Monday, January 28.

Applications for 1980-81 National Defense Education Act Title VI (Foreign Language and Area Studies) Fellowships are available at the Fellowship Office. Applicants must be citizens or nationals of the United States who plan to pursue

Graduate Bulletin

formal training in modern foreign languages and related area studies with the intent of applying their training toward careers in higher education or public service. Applications may be submitted for language training/area studies for the following world areas: East Asia, East Europe and Russia, Latin America, South Asia, Southeast Asia. Completed applications must be submitted to the Fellowship Office, 116 Sage Graduate Center, by Monday, January 28.

Applications for Graduate School Summer Fellowships and Graduate School Summer Tuition Awards will be available in early March.

Applications for need-based financial aid for 1980-81 are available at the Office of Financial Aid, 203 Day Hall. Completed applications for professional degree candidates and law students must be submitted to the Office of Financial Aid by March 3; completed applications for all other graduate students must be submitted by May 1. All applicants are urged to submit their applications as early as possible.

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

Jan. 21: National Endowment for the Arts—National Endowment Fellowship Program

Jan. 21: National Institute of Education—Teaching and Learning Research Grants/Small Grants

Jan. 31: Josephine de Karman Fellowship Trust—Aerojet General Corporation

Jan. 31: German Academic Exchange Service (DAAD)—Short Term Research

in Germany (contact Prof. Deinert, 188 Goldwin Smith Hall)

Feb. 1: American Antiquarian Society—Albert Boni Fellowship/Fred Harris Daniels Fellowship

Feb. 1: American Oriental Society—Fellowship Award for the Study of Chinese Painting/Louise Wallace Hackney Fellowship for the Study of Chinese Art

Feb. 1: American Sociological Association—Minority Doctoral Fellowship Program in Sociology

Feb. 1: Argonne National Laboratory—Summer Research Institutes (Biology, Energy, Nuclear Engineering)

Feb. 1: Eisenhower Memorial Scholarship Foundation—Graduate Scholarships

Feb. 1: Institute of Food Technologists—Fellowship/Scholarship Program

Feb. 1: Institute for the Study of World Politics Fellowships

Feb. 1: National Research Council/Ford Foundation—Postdoctoral Fellowships for Minorities

Feb. 1: National Scholarship Trust Fund—Technical Association of the Graphic Arts Printing, Publishing, and Packaging Industry Fellowships

Feb. 1: Saint Andrew's Society of the State of New York Scholarships

Feb. 1: U.S. Department of Health, Education and Welfare/Alcohol, Drug Abuse, and Mental Health Administration—National Research Service Awards for Individual Fellows

Feb. 15: American Museum of Natural History—Frank M. Chapman Memorial Fund

Feb. 15: Northern Masonic Jurisdiction (Scottish Rite)—Schizophrenia Research Grant Awards

Admissions, Aid Posts Filled

A new dean of admissions and financial aid and a new director of financial aid have been announced by Alison Casarett, vice provost.

James J. Scannell, director of admissions at Boston College since 1974, has been named to the dean's position. His appointment begins Feb. 15.

William J. Bushaw, director of financial aid at the University of Iowa since 1973, has been named financial aid director effective Feb. 1.

Scannell succeeds Donald G. Dickason, who now holds a similar position at Pennsylvania State University. Bushaw succeeds Robert C. Walling, now director of financial aid at Eastern Michigan University.

In his role as director of admissions at BC, Scannell coordinated the disbursement of \$5 million of financial aid to incoming students. He introduced marketing strategies for recruitment of new students, and combined freshmen and transfer applications increased to 17,000 from 10,000 while he was director.

From 1971 to 1974, Scannell was assistant director of admissions at BC. During that time he chaired several special admissions programs and committees, including minority and disadvantaged admissions, handicapped student admissions and commuter student admissions.

Scannell directed the Model Cities Program in Cambridge, Mass. in 1970-71, under contract with the Cambridge City Demonstration

Agency. He developed a year-round after-school program for inner-city youth between the ages of 6 and 12.

A 1965 BC graduate, Scannell earned a master's degree at Harvard University and is completing his Ph.D. at BC.

Bushaw worked in financial aid at Iowa since 1968, beginning as a graduate assistant. He became assistant director in 1969, and associate director in 1973.

As associate director at Iowa, Bushaw managed the accounting, data processing and budget functions, and developed computer applications. As assistant director, he was primarily responsible for the College Work-Study Program.

Bushaw holds bachelor's, master's and education specialist degrees from Iowa.

Humanities Has Additions

A new senior fellow in the Society for the Humanities at Cornell University — and a new seminar — have been added for the spring term 1980.

Biancamaria Tedeschini Lalli, professor of English and American literature at the University of Rome, is the new senior fellow.

"The Poems and Essays of Walt Whitman: Reading and Misreading in an International Context" is the seminar she will offer this spring.

The seminar will consider Whitman's poetic language, theory

and notion of the "common American language" as one of the main sources of the modernistic language experimentalism in Europe as well as in the United States.

Because of the lateness of the arrangements, Lalli's seminar is not listed in any University catalog. Full details on the seminar may be obtained at the Society for the Humanities in the Andrew D. White House.

Lalli is the author of "Henry David Thoreau," "Emily Dickinson" and "Dos Passos," and

a bibliographical volume as well as many journal articles. She has her Ph.D. from Stanford University in American literature.

Michael Kammen, director of the Society for the Humanities, met Lalli in Rome four years ago and describes her as a "dynamic, fascinating and extremely cosmopolitan scholar. Her presence at Cornell will be a tremendous boost to the American Studies Program, and to the various literature departments."

Affirmative Action

Continued from Page 5

recruitment, retention, and training of non-academic minorities and women.

2. **Internal Mobility.** Senior Vice President Herbster has also been asked to develop specific strategies for increasing the internal mobility of non-academic women and minorities working at Cornell and to coordinate these with strategies for recruitment, retention, and training.

IV. **Periodic Progress Reports**
Periodic progress reports on the effectiveness of our affirmative action efforts will be made by the Provost to the Cornell community.

V. **Conclusion**

These initiatives will not replace

the need for good faith and persistent efforts on the part of all those involved in search, evaluation, appointment and promotion procedures. They will, however, provide clear reminders of our continuing obligation in this vital area. Our larger goal is not merely to meet federal guidelines, to comply with federal requirements and to achieve institutional goals, important as all those objectives are. It is rather to make Cornell an example of a diverse, challenging, and supportive University community, dedicated to the highest scholarly standards, sensitive to the unique importance of racial and sexual diversity, faithful to its historical role, and devoted to the public good.

Breakfasts with President

Students interested in having breakfast with President Frank Rhodes are invited to call his office at 256-5201 to make a reservation.

The breakfasts are a continuation of a program that began last semester. They will be held from 7:30 a.m. to 8:30 a.m. on eight Tuesdays and Thursdays throughout the semester in dining units on campus. Each breakfast will in-

volve 10 students.

The dates for the breakfasts are: Tuesday, Jan. 29; Tuesday, Feb. 26; Tuesday, March 11; Thursday, March 27; Tuesday, April 8; Thursday, April 24; Thursday, May 1, and Tuesday, May 6.

Students who will attend will be notified of the locations of the breakfasts.

Environmental Workshop

Governmental assessment of environmental issues will be discussed in detail during a three-day workshop here Friday, Saturday and Sunday, Jan. 25, 26 and 27.

Sponsored by the Environmental Planners of Cornell, a student organization, the workshop will start with a lecture at 8 p.m., Friday, Jan. 25, in the Hollis E. Cornell Auditorium, Goldwin Smith Hall. Malcolm Baldwin, senior counsel of the Federal Government's Council

on Environmental Quality, will discuss the first 10 years of the National Environmental Protection Act of 1969.

The workshop is open to Cornell students and persons professionally interested in the issues. A \$5 registration fee will be charged.

For details of the workshop, titled *An Environmental Impact Statement*, contact Eric Won, room 328 West Sibley Hall, Cornell University, or Holly Thomas at 272-2090.

Chasen Poetry Prize Established

A prize for contemporary poetry has been established at the University in honor of a man who was a lawyer but "a poet at the center," according to a close friend.

The Robert Chasen Poetry Prize, to be awarded annually for the best poem of at least 300 lines by a Cornell undergraduate or graduate student, has been made possible by a \$20,000 endowment from Margaret Rosenzweig, a 1932 Cornell graduate.

The endowment also will support an annual reading and lecture by a well-known poet.

A second \$20,000 endowment will

be used to create the "Margaret Rosenzweig Book Fund in honor of Robert Chasen." Three-fourths of the income from the endowment will be used for post-Victorian English poetry. The rest will be used for Judaica acquisitions.

Mrs. Rosenzweig and her husband, Simon, a 1927 Cornell graduate, were long-time friends of Chasen, who died in February. Chasen was associated with Cornell through his work as a senior researcher on the Liberian Codification Project.

The project, which prepares laws for the Republic of Liberia and edits

the opinions of its Supreme Court, has been directed by Milton R. Konvitz, professor emeritus of industrial and labor relations at Cornell, since 1952.

Chasen's law work "involved only the outer man," Konvitz said. "The inner man lived a totally different, separate life. For at his center, Bob was a poet."

Chasen published one book of poems, "Moses Lives on the Third Floor." However, he left Mrs. Rosenzweig 14 notebooks filled with thousands of poems.

Rare Violone Reported Stolen

A 17th century instrument, ancestor to the modern double bass, and one of three or four of its kind in this country, has been reported stolen from the University.

Known as Violone, the fretted 6-stringed instrument, is a playing replica of one made by the Italian craftsman Pietro Santo Maggini (c. 1630-1680) in Brescia. Modern double basses only have four strings and no frets.

The instrument which stands 6 feet-one inch high was made specially for Cornell by Michael Heale, maker of historic instruments in Surrey, England. It is valued at \$5,000.

Its practical value is limited to a very few musicians in this country who are qualified to play the relatively complex and unusual instrument.

The great fear that haunts the musicians at Cornell is that when

the person who stole the instrument found out its uniqueness and the impossibility of selling it let alone playing it, he or she may have abandoned or even destroyed it. This was the main reason for not publicizing the theft to a greater extent earlier, according to Neal Zaslaw, chairman of the music department.

It was first missed Nov. 29 by John Hsu, professor of music at Cornell, and one of the few persons in the country who can play the Violone.

"If the Violone could be placed where it could be found and returned or if we were given some information where it could be found we would be overjoyed," Zaslaw said.

The instrument is in a brown canvas bag with a dark brown plush lining.



Bulletin of the Faculty

Faculty Council of Representatives December 12, 1979

The Speaker, Russell D. Martin, called the meeting to order at 4:38 p.m. 60 members and numerous visitors were in attendance. He said it was a pleasure to welcome our Secretary Emeritus, Professor Paul Hartman, for tonight's meeting. (The Secretary wishes to express his most sincere thanks to Professor Hartman for his willingness to act as Secretary at the meeting during his absence.) There being no additions or corrections to the minutes of the November 14 meeting, they were accepted as distributed. The Chair called on the Dean of the Faculty, Kenneth Greisen, for his report. 1. **REPORT OF THE DEAN**

The Dean announced that for the first time under the present system of faculty governance, we have an occasion where the University Faculty is going to attempt to nullify a resolution passed by the FCR. At the very end of the twenty day period prescribed in OPUF he reported having received a petition containing sufficient signatures to request a vote of the entire University Faculty to nullify the resolution on confidentiality passed at the last FCR meeting. Since December and January are not the best months to call a meeting for such purposes, he had decided that the issue should be brought to the regular February 20th meeting of the University Faculty. He further noted that regardless of the outcome of that vote it would also be possible and, perhaps, even appropriate in view of the low quorum requirement for University Faculty meetings, to hold a referendum of the entire Faculty on the issue. Such a referendum would, however, require a petition signed by 103 Faculty members, the number of authorized members of the FCR.

The Dean also reported that the Review and Procedures Committee, following the special meeting of the University Faculty called to establish an ad hoc committee on South African investment policy (those 61 present had voted unanimously in favor of establishing such a committee but the resolution failed for lack of a quorum being present), had decided not to establish such an ad hoc committee as an ad hoc committee of the Review and Procedures Committee and instead refer the establishment to the FCR. This issue will, therefore, most likely be brought forward at the February FCR meeting.

There being no questions for the Dean, the Chair requested consent of the body for a few moments to grant speaking privileges to Professor John Burton, I&LR, member of the Professional and Economic Status of the Faculty Committee. It was so granted. 2. **REPORT ON NEW UNIVERSITY BENEFIT PLAN**

Professor Burton said he was presenting a statement by the Committee on the professional and Economic Status of the Faculty concerning the new benefit plans for Cornell University employees. The new group life insurance plan and new long-term disability plan for Cornell University Faculty and staff will become effective on January 1, 1980. A statement on the plans by Professor John Nation, Electrical Engineering, who is Chairman of the Committee on the Professional and Economic Status of the Faculty, appeared in the December 6, 1979 issue of the *Chronicle*. He felt, however, that several points from Professor Nation's statement are worth emphasizing again. One, the deadline for Faculty and staff to return enrollment cards for life insurance and long-term disability insurance is January 1, 1980. Even though the long-term disability plan is mandatory, the extent of protection — but not the cost — will be reduced for those who fail to meet the January deadline for returning the enrollment card. Two, for those members of the Faculty and staff who submit the enrollment card by January 1, the deadline to elect supplemental life insurance without medical examination has been extended until February 1, 1980. The supplemental insurance amounts are 1 1/2 or 3 times the annual base salary.

Three, the statement in the *Chronicle* contains cost comparisons between the supplemental insurance under the new Cornell plan and five-year renewable term insurance available from TIAA to Faculty members who can meet the TIAA medical standards. The cost comparisons indicate that the Cornell supplemental insurance is a particularly attractive buy for Faculty members 45 years or older. Four, Faculty members should also be aware that the life insurance provided at no cost to retirees is only provided to those Faculty and staff members who have elected supplemental life insurance prior to retirement. Five, other aspects of the new Cornell group life insurance plan discussed in the *Chronicle* statement are the extent of inflation protection provided, the necessity for an election of additional supplemental insurance to be accompanied by a health statement and if requested by the insurance carrier, and a physical examination, if the election is made after February 1, 1980.

The Speaker asked if there were any questions for Professor Burton.

Associate Professor Aaron N. Moen, Natural Resources, said the timing of the returning of cards, seems critical. How do we know if our card has been received if we returned it?

Professor Burton replied that it was his understanding the people whose enrollment cards have not been received yet would be receiving a registered letter advising them of the critical nature of the January 1 date. Faculty members who have not received that letter and who still have some anxiety, he suggested should call Personnel.

The Chair next called on the Dean of the Faculty for a resolution on behalf of the FCR Executive Committee. 3. **CALENDAR RESOLUTION CONCERNING FALL BREAK 1980**

The Dean reminded the body that at its last meeting Provost Kennedy asked the Faculty to consider changing the Fall 1980 calendar to reinstate the fall break in October and shorten the Thanksgiving vacation to its traditional length. In response to that request the Executive Committee put on the agenda the following resolution which was distributed with the call to the meeting:

RESOLVED, that the FCR approves the proposal recommended by the Campus Council and endorsed by the Provost, to replace the week-long Thanksgiving vacation in 1980 by a two-day break on Monday and Tuesday, October 13 and 14, and a Thanksgiving vacation starting at 1:10 p.m. on the Wednesday before Thanksgiving and continuing through the following Sunday as in 1979.

The Speaker announced that this resolution amounts to an amendment of a previously adopted resolution which with previous notice requires only a majority vote. He further pointed out that in the announcement of the meeting, discussion on this matter would be limited to 30 minutes. He then called on Professor Edgar M. Raffensperger, Entomology, and co-chairman of the Calendar Committee to start the discussion.

Professor Raffensperger stated that since the Calendar Committee passed out of existence when it presented its report and the report was accepted by this body and the Campus Council last May, "I feel a little bit like the mythological phoenix rising from the ashes. My consternation stems from the fact that I know the rest of the myth. The next step is that you get hummed again." He then recounted the Calendar Committee's deliberations on the issue here involved including therein the following points. The October fall break instituted this year was arrived at as a first unanticipated task in response to the call for an opportunity to relieve tensions previously observed during the Fall term. Since the Mental Health Clinic Director felt that the weather was an important factor in increasing stress during the fall term, mid-October was chosen for the break since that was

perceived as the time the weather normally begins to change. However, when it came to setting the calendar for the future since it was felt that there was a perceived "slippage" around short breaks, that the weather usually gets worse after mid-October, "despite the Calendar Committee's successful efforts this year to schedule September weather through the end of classes" and that many students who had to travel a considerable distance could not afford to go home for two short breaks, the Committee decided that the better choice was a longer break at Thanksgiving. He further noted that the Committee considered that with two short breaks there was an additional difficulty for laboratory classes. He then pointed out that while the date of Thanksgiving is immutable, by scheduling the full week off, including Thanksgiving, that that holiday does not really begin at Thanksgiving, it rather begins at the end of the last class of a student in the previous week with the result that it is not quite as late in the semester as it would appear. He also noted that since we must have Thanksgiving off, the only choice for a full week off had to involve Thanksgiving if we were to preserve a 13 1/2 week term between Labor Day and Christmas. Finally, he pointed out that a "modest survey" conducted among students at the time of the Committee's deliberations revealed a general feeling among those surveyed in favor of the longer break at Thanksgiving rather than two shorter break periods.

He then continued, "Now we have, however, some added information because we have had a two break semester. I'm sure that if you ask any student or for that matter any Faculty member if he or she enjoyed the holiday, the answer had to be yes indeed, it was nice to get away. I have also talked with some dorm counsellors. They felt that was a valuable holiday — that it helped to relieve tensions in the dorm and I'm sure students and Faculty felt the same way. However, I went a bit beyond that point and I also took advantage of a course that I'm teaching — a course this term in which there are approximately 100 students — 98 to be exact. I asked the students in the class how many of them left the campus on both of the holidays, and I got a unanimous vote. Everybody did. I think there was one who did not — a foreign student who decided to stay on, but essentially everyone left. The next question was how many of you did any significant studying during either of those holidays. And about a third of the students raised their hands. That intrigued me. I didn't expect to find it. I expected it to be a relief period. But then I asked another question. I said how many of you then were assigned projects because you had a holiday — projects that were intended to take more time than a normal weekend would, and that were expected to be done during a holiday. And the same third raised their hands. I respectfully suggest that any recommendation that a committee makes to relieve tensions by declaring a holiday that it is then nullified by Faculty assignments of projects to take up all of that time off, is a losing process. I was dismayed to hear that. In a sense, it has nothing to do with the present debate, but it was a rather astounding discovery and I thought I'd pass it on to you. Well, I went on and asked the ultimate question. Now this I remind you was during the last week after both of the holidays. And the question I asked — given a choice and now that you've seen a semester with two breaks, would you rather have that system again or would you rather have a system in which you have a full week off, actually a nine-day break, involving Thanksgiving? The split in the class was precisely down the middle — 50% each way. Now this was after a perception of a broader base than we would have come at if we would have made a survey at the end of the first break — that is the early fall break. Also,

I have since that time asked a number of my own student advisees privately how they felt about it. Generally they fell on both sides — a couple of them did suggest however — again to my surprise — that the fall break had actually disrupted what they were doing, that they had lost a weekend to study, that they came back farther behind than they were before and that they weren't too sure whether they liked that."

He concluded that based on all the information he now had, "I come down on the side of giving the committee's recommendation a try before we go back and change things to a previous order."

Associate Professor Daniel L. Solomon, Plant Breeding and Biometry, stated that he favored the proposed change because we would retain an additional class period for classes meeting on Monday, Wednesday, Friday morning and thus maintain the current 41 class periods we now have.

Professor Simpson Linke, Electrical Engineering, asked Professor Raffensperger as to his estimate as to whether his class constituted a cross section of University student discipline.

Professor Raffensperger replied that they were mostly from his own college. "Of the essentially 100, eight were from the College of Arts and Sciences, one from the College of Engineering and the rest from Agriculture and Life Sciences. There were five Freshmen, 19 Sophomores, 25 Juniors, 44 Seniors and five Graduate Students."

Dean Greisen noted that the first week of classes will not be a split week in 1980. The classes that would ordinarily be held on Monday, Tuesday, Wednesday, Thursday and Friday will be held instead Tuesday, Wednesday, Thursday, Friday and Saturday. Only for those courses that normally schedule classes on Saturday will be a displacement from a continuous week.

Acting Dean of Students, Ruth Darling, spoke affirmatively for the proposed change, "simply on the basis of the students and not on the basis of academic problems which this causes some." She stated: "We found that the benefits of this mid-October break seem to apply mostly to Freshmen. They're the ones who felt that the tension was unbearable and for them this break was of real value. The Student Life and Activities Committee of the Campus Council approved unanimously this change if it could be made. They felt that many positive things came out of it in relation to the actions of students and particularly Freshmen when they returned from their mid-October break."

A vote was then called for and the resolution was carried, but not without some notable dissent. 4. **ADDRESS BY PRESIDENT RHODES ON THE AFFIRMATIVE ACTION POLICY OF THE UNIVERSITY**

(The text of the President's remarks are printed elsewhere in this issue of the *Chronicle* (January 17, 1980) and are thus not reproduced again here.)

Following the President's remarks the President indicated his willingness to reply to comments or inquiries.

Professor Sydney S. Shoemaker, Susan Linn Sage Professor of Philosophy, inquired about a suggestion from the AAUP, in a connection with a now pending grievance, that a committee including at least two members from outside Cornell be established to review the situation.

At the request of the President, Professor W. Donald Cooke, Vice President for Research, responded that some time ago such a suggestion had been received from the AAUP, but at that time the AAUP was unaware of the existence of the Committee on Academic Freedom and Responsibility. He also noted that the case was presently before that Committee.

The President commented that use of a review committee with members from outside Cornell was not likely to become part of the Cornell process.

Associate Professor V. Rada Dyson-Hudson, Anthropology, pointed out that by the time all the procedures involved have been followed, this individual will almost certainly have lost her research grant and suffered really irreversible professional damage.

Associate Professor Billie Jean Isbell, Anthropology, asked whether the Administration had thought thru the possibility of utilizing joint appointments or part-time full status appointments. She noted: "There is a lot of discussion about the environment of Ithaca not drawing individuals from minority groups and especially women, who find themselves often attached to other professionals. Has the Administration thought thru the possible policy of joint appointments or part-time full status?"

The President replied: "The answer is yes to the general question, have we attempted to do that. I think within the last couple of years we've had two joint appointments where both husband and wife have been appointed to Cornell positions. And they've been very successful from, I hope, the viewpoint of the individuals, but certainly from the University's point of view. And we welcome that. We are also very much open to the possibility of part-time appointments. What I don't know is the extent to which we're using that or find that a useful method of recruitment."

Provost W. Keith Kennedy said: "We certainly would entertain such a proposal on the part of department chairmen or deans or others. To the best of my knowledge a situation of this type has not been presented to us for consideration. There was a case in which we were attempting to attract a woman to a position. The husband wanted to be associated with the University and it eventually developed that both of them obtained appointments. In such cases we have contacted deans, department chairpersons, others — we've also contacted institutions near Cornell — Ithaca College and others — pursuing job opportunities. I also think that we have to recognize at least at the junior level that a single salary is not that attractive in this day and age, and so while you read about shared appointments, I'm not sure that there are large numbers out there who are willing to take one appointment and split it in a professional way. President Rhodes indicated that it does allow you in rare cases to give professorial appointments that then allow them in turn to get outside research support. I was involved in getting a joint appointment on a single salary in a medical school at another university. In fact they both had full time salaries in the end through outside support. But that's not as easy in this context as it is in there."

Mr. Cooke said, "We do have part-time appointments — in fact Faculty legislation exists, and it certainly is allowed by University procedures. We do have some people who have part-time appointments here, part-time appointments in other institutions, and I think we actually have 31 Faculty couples — husband and wife both on the Faculty."

There being no further questions for the President, the Chair next called on Professor Ulric Neisser, Psychology, and Chairman of the Minority Education Committee and Assistant Professor John L. Ford, Human Service Studies, a member of that Committee, for a report. 5. **REPORT AND RESOLUTION FROM THE MINORITY EDUCATION COMMITTEE**

Professor Neisser noted that all had received with the call to this meeting, a resolution on affirmative action that was drafted by the Minority Education Committee, as well as the Report of the Committee's work last year under John Ford's chairmanship, on which that resolution is based.

He indicated that he would like to make a few brief comments and highlight some of the issues to which the resolution is addressed. He then stated: "I was very glad to hear President

Rhodes' speech and his expressed commitment to the goals of affirmative action. I think that commitment is an essential part of what we must do if we're to move forward in this area and his report of progress in the number of hirings of new minority Faculty was very gratifying. Certainly, there have been many calls for vigorous leadership in this area in recent times — not only our own committee report which you have but also about a half year before in a report to the Affirmative Action Advisory Board, I think under the chairmanship of Professor Goldsmith, which also called for vigorous leadership at the administrative level in affirmative action. There has evidently been a strong response to these calls, and indeed we need a strong response because the University has such a long history of failure in the matter of affirmative action. However, based on data that Vice President Cooke supplied and that others supplied a year ago, there are many administrative units in the University where there are virtually no more women Faculty members than there were five years ago, and also virtually no more minority Faculty members than there were then. In fact, sometimes there are no minority Faculty members in units, including very large units. Accordingly our Committee determined last year to investigate this situation by talking to the deans or their representatives in all of the colleges that have undergraduate components, and we did that. We didn't expect to find nor did we find any evidence of personal racism or prejudice, and we saw nothing like that. We didn't expect to find and we didn't find any lack of machinery — administrative machinery — concerned with affirmative action. There already has been for some time in place in the various colleges, complicated administrative machineries for affirmative action which are being carried out — executed I'm sure faithfully by people whose primary responsibility lies in that area. And still we make virtually no progress. And it thus seemed to the Committee that the real problem is one to which the Faculty must address itself — one which cannot be solved simply by creating more administrative machinery or solely by commitment on the part of administrative leaders. When we talked to the deans about these questions we almost always came back to what they saw as structural obstacles to affirmative action that seemed to them entirely insuperable. They would say with all the good will in the world — there simply are no candidates, no minority candidates for these jobs. There just are none. And then we would have a considerable discussion about how extensive the search had been and if we could do more searching and spend more time. I believed the deans that there had been no minority candidates available for many of the positions that had been defined, and often no women candidates either. The insight to which we came was that that is not entirely a structural obstacle, not entirely an insuperable obstacle. Rather it really is a value judgment. The reason that there are no minority candidates often is because the positions are designed and defined as they are. If the positions were defined differently — if we were seeking different kinds of people or a different range of people — then there might be candidates — both minority and women candidates — available or more of them. Why do we define the slots as we do? It's because our disciplines are at a certain position. We need certain courses taught or we need to keep up with new developments. There are many reasons of this kind and often the Faculty of a given department or a given unit will deliberate together for a long time over recruitment needs. Of course in doing so we pursue goals. We exercise values. We decide what's important. It's very important that we cover this course. It's very important that we keep up with these new developments. To my knowledge, affirmative action, that is the concept of having a diverse Faculty — a Faculty in which minorities and women are adequately represented — rarely enter into these discussions. Rather, we first make our academic decisions and then we search without prejudice to find candidates who fit those slots. We don't

have to do it entirely that way even if we have to do it mostly that way. That is, there are many cases, perhaps the majority of cases, where there are very compelling academic reasons or professional reasons why we must define our search in a certain way. But I have now been at Cornell long enough to know that there is often more flexibility in these situations than appears on the surface or that we are willing to admit. Often there is even disputes among Faculty or among faculty and administrators as to what direction this search should take. And we are now suggesting that in making decisions that we give the question of diversifying our Faculty towards minority and women some finite non-zero priority. That it not be something that we do after we finish defining the position, but that we initially consider if we define the position in a certain way, we may be able to diversify our Faculty and that's also worth doing. Those are the kinds of considerations which we propose the Faculty should inject into their hiring considerations. That is why we suggest, in point two of our resolution, that 'whenever job descriptions for Faculty appointments are drawn so narrowly that the pool of qualified applicants includes no minority representatives, some consideration should be given to broadening those descriptions, so that the University's need for a more diverse Faculty can be weighed together with the particular academic and professional considerations that are relevant to the appointment.' Our resolution contains other elements as well. I have addressed myself to this one because I think it is the one that will be the most controversial in that it calls for a change in our policy. We also suggest 'the several graduate fields...increase their efforts to recruit and train minority students, especially in those areas where minorities are not well represented' on the Faculty. If the pools are too small, let us expand them. We also suggest something that to a considerable extent is already being done according to what was reported here today, that the University must not hesitate to create adjunct or visiting positions, and interdisciplinary appointments and the like to make it more easily possible for minority scholars to come here. We also suggest that 'when several well-qualified candidates are available for the same position (no unqualified or poorly qualified person should ever be considered...) it is legitimate to consider the goal of achieving a more diverse Faculty as relevant to the choice among...' such candidates. But the main point, at least for me, is the one which President Rhodes in a way stressed also, though he did not commit himself to this means of expediting it, when he said that the University must be as committed to diversity as to academic quality. I'm not sure that I would altogether go along with that statement. Academic quality must still, perhaps, be our highest goal; but we could put the attainment of diversity somewhere in the priority system above point zero and we would do so if we would pass this resolution. The Faculty would finally commit itself to giving affirmative action a very positive place in its deliberations. I hope that you will do so."

Professor Ford indicated that he too was very thankful that President Rhodes has re-affirmed his strong commitment to affirmative action at Cornell University. He stated: "I hope that that commitment will rub off on the entire Cornell community. We developed this resolution with three points basically in mind. We as a Committee felt that we still have a very serious problem on this campus with regard to the lack of progress with affirmative action. We also felt that this is a problem that should not be trivialized by saying that it's unimportant, it doesn't affect us, nor should it be made super-magnified to the point of people saying nothing can be done about it, there are no candidates for these positions, and so forth. The possibilities for solving our problems with affirmative action are within our grasp and I think that is the spirit in which we approached constructing these resolutions. I think that they offer some specific examples of what deans and department chairmen, search committees and

Faculty alike might strongly consider in trying to make some progress in affirmative action. I would remind you that the resolution contains no binding quotas, nor any strict requirements. I think that the resolution can be thought of as an expression of good faith to make some progress in affirmative action at Cornell."

The Dean then introduced a resolution from the Minority Education Committee for consideration by the FCR. (The full text of the amended version of this resolution appears at the end of these minutes.)

The Speaker then called for debate on the resolution. Associate Professor Nicholas L. Sturgeon, Philosophy, noting that the resolution did not include women but spoke only concerning "blacks and other minorities" I proposed an amendment that would in effect include women in the scope of the coverage of the resolution.

The amendment was seconded, and the floor opened for debate and discussion.

Professor Neisser said both he and Professor Ford would not oppose this amendment. He noted: "The reason that the resolution was drawn as it was was because it was drawn by the Minority Education Committee and its charge very carefully and explicitly limits its deliberations to issues of minority education programs, minority faculty and staff hiring and the like, and makes no mention of anything having to do with women. And therefore, we felt it was inappropriate for our committee to phrase the resolution as it would now be phrased, but we have no objection whatever to this amendment."

Professor Vernon M. Briggs, I&LR, wished to talk against the amendment. He stated, "I think the President has shown us, as all of us know, that in fact we're not talking about equals. It is much easier to recruit women to the faculty than it is to recruit minorities. It does not mean women on the faculty are not being discriminated against; it does not mean it's easy. The desperate need of University faculties is to change the racial composition. We're going to have to address the question of minorities head-on. As long as we're able to use the alternative of a woman in place of a black, Hispanic, Asian American, native American, I think you're going to find the same figures. We'll make progress, gradual and slow perhaps, but we'll make progress employing women. We will not do it with minorities. I think that we've got to address this question specifically on minorities. I think this is a crucial need. I would also suggest that in terms of opening up the pool of graduate students, this is not unrelated to the pool of faculty. Minority faculty carry a burden of extensive personal counselling that no majority faculty member, man or woman, carries. I know of no experience comparable to what minority faculty have to carry in terms of personal counselling, housing, personal relationships on campus, even dormitory problems. And so if you're going to increase the pool of graduate students the only real way to do that is to increase the number of minority faculty on this campus. At Texas we as an economics department faculty simply made a gentlemen's agreement that the next two positions of hire in our department were going to be women or minority. Whatever field it took — labor economics, international trade, theory, whatever. The next two faculty we hired were minority — both men. Actually the next three positions turned out to be minority — Ph.D's from MIT and Michigan State. Immediately we were able to increase the pool of graduate students within a year. Not because the rest of us could do anything, even though we wanted to do something, but because when a minority faculty member went out to do recruiting at minority schools, they were able to do things the rest of us didn't do in terms of outreach. Personally, I feel that the issue of minorities should be addressed head-on and the strength of this report is really in the fact that it addresses exclusively minorities — male or female minorities. And I feel that if we do what sounds nice — minorities and women — we will dilute that attention. It is easier to get more professional women on this campus. Some of them are married to other professional men. This

report properly recognizes the issue of minorities as a special group within the general rules of affirmative action."

Associate Professor Richard N. Boyd, Philosophy, wished to speak in favor of the amendment. He stated that while "it is for many people much less frightening to hire a woman than it is to hire a minority, we're not going to meet hiring of women or minorities head-on in this faculty unless we do it in a united way. We're going to have to take all these issues seriously together. A very bad beginning would be made if we drew any distinction. I think we do have to worry that there are some areas in which there might be a temptation to hire women and never hire minorities. And I think we should get out of that way of thinking. That will not be facilitated by defeating this amendment. The defeat of this amendment would unintentionally breed disunity among people who need to be united if affirmative action is to be successful."

Associate Professor Donald C. Graham, Food Science, a former member of the Committee, noted that the Committee did not consider women because the Committee was not so charged. He stated: "In 1976, I believe, the FCR created this committee through several resolutions that were passed — all dealing with minority education at Cornell. And while I'm sure this body recognized that women too were under-represented and still are in many areas of the University, the problem with minorities is much more crucial, much greater than that for women. It was then, it still is today. Since the factors that we uncovered on which this resolution is based relate solely to minorities, to put women in at this point certainly would dilute the impact that the resolution, if finally passed, would have on minority education. And for that reason, I would strongly urge that you not consider adding the amendment to the resolution."

Professor Sturgeon replied: "It was not my intention in proposing this amendment to dilute the resolution as applied to minorities in any way. Nor do I think that the effect of this would be to dilute the amendment. There are two considerations here which seem to me crucial. I'm prepared to believe that the problem of minorities is indeed more severe than the problem of women, but there are serious problems in both areas. It is a matter of common knowledge that there are large units in the University which have no women, as well as large units that have no minorities. The problem may be less severe, but there are serious problems. It seems administratively silly to divide up the problems when they are similar. It is also bad tactics to try to set one group against another, so that blacks and women have to compete with one another. That would dilute affirmative action. And that seems to be a very serious mistake. Under my proposed amendment those people involved in the administration of affirmative action will be charged with looking both at the appointment of and recruitment of blacks and women, and again, it seems frankly somewhat odd to tell them only to worry about the problem of minorities."

Assistant Professor Michael E. Gold, I&LR, stated: "When Title VII of the Civil Act was before Congress in 1964, that is the compromise that eventually became Title VII, it originally included no provision on sex. It addressed only race, religion and national origin. Congressman Smith of Virginia proposed an amendment that added sex to the bill. Many people have suggested that he did it to sabotage the bill. I think he did it so that a black woman would have a case, while white women would not have a case. My point is that many women in Congress opposed adding sex to the bill. Among them, Congressman Griffith of Michigan. She thought that it was important enough to limit discrimination against minorities — that that should be the sole protected group. Well, she lost. I think that our experience since 1964 has been that we have achieved a degree of improvement for both minorities and women."

Professor Briggs indicated a slight disagreement with Professor Gold. He stated: "It is true that when the bill was before Congress that Judge Smith knew

exactly what he was doing — he wanted to try and defeat the bill. I might also indicate that the Department of Labor testified against the bill, but I won't debate that point here. I'm simply saying that I think we've come to a point where we're going to have to make a decision on the effectiveness of increasing the number of minorities. And I might also add the results of Title VII have shown that the majority of cases before the Equal Opportunity Commissioner involve sex discrimination — not race discrimination. And so in many ways Title VII has become more of a program for assistance of women, which is all right. I'm simply saying in terms of accomplishing objectives, if we want to increase the pool of minority faculty members and graduate students, I think we've got to address the issue of minorities separately. Not because one is against women and not because one wants to play one off against the other. There have been far more women added during the last two years than minorities."

Professor Raffensperger then called the question. The Speaker said if there were no objections the body would proceed to vote on the amendment. On a voice vote, the amendment passed, with some nays recorded. The resolution now before the body as amended is as follows:

WHEREAS, the University has made discouragingly little progress in its efforts to increase the representation of blacks, other minorities and women on its faculty; and

WHEREAS, the reasons for this lack of progress, documented in part in the June 1979 report of the Minority Education Committee, include

(a) the relatively small pool of qualified women and minority candidates in certain fields and the narrowly drawn criteria often used to define open faculty positions,

(b) competition with other universities and with private industry for a small number of qualified women and minority candidates, and

(c) the fact that affirmative action often receives lower priority than other educational goals even when a genuine positive commitment to its objectives is present;

BE IT RESOLVED THAT

(1) the several graduate fields are urged to increase their efforts to recruit and train women and minority students, especially in those areas where women or minorities are not well represented;

(2) whenever job descriptions for faculty appointments are drawn so narrowly that the pool of qualified applicants includes no need for a more diverse faculty can be weighed together with the particular academic and professional considerations that are relevant to the appointment;

(3) when several well-qualified candidates are available for the same position (no unqualified or poorly qualified person should ever be considered for appointment) it is legitimate to consider the goal of achieving a more diverse faculty as relevant to the choice among them;

(4) the University must not hesitate to create adjunct or visiting positions, interdisciplinary appointments, part-time positions, and similar openings when they are appropriate to attract women and minority scholars to the community;

(5) the entire faculty, as well as the President, the Provost, the Deans and their affirmative action officers, must sustain their commitment to establishing a more diverse faculty, and use such means as are at their disposal to ensure that this goal is not set aside when more traditional criteria for appointments are under consideration.

The Speaker announced that since the 6:00 p.m. adjournment time had been reached, this matter would be brought up as unfinished business at the February meeting.

Respectfully submitted,
Joseph B. Bugliari, Secretary

Brief Reports

Learn to 'Converse' With Computers

Students will get a free demonstration on how to "converse" with computers at 1 p.m. and again at 3:30 p.m. today in room G-14, Uris Hall.

The hour-long talk and demonstrations are being conducted by Cornell Computer Services. Cornell's free interactive student computing facility is located in G-14.

According to a spokesman for computer services, "Computers are playing an ever increasing role in society, with some courses requiring their use and others enhanced by their use. The demonstration will give students a head start on how to use them."

The sessions are open to students from all units of the University. Free handouts on how to use the facility also will be available.

New Tax-Exempt Form Now in Use

The University has begun using a new, two-color New York State Sales Tax Exemption form, according to Wallace B. Rogers, director of general services at the University.

The 8½ by 11-inch form is pre-numbered, and departments need to account for each number issued to them when they apply for new forms, Rogers said. The two colors are intended to make it easier for vendors to identify valid forms.

Rogers said each certificate is valid for only a single transaction, and the purchaser is required to provide the name of the department making the transaction.

All previous certificates became invalid at the end of the year.

New forms are available for statutory units at the statutory business office in Mann Library and for endowed units at the Office of General Services, 161 Day Hall.

Japanese Films Series Planned

The China-Japan Program is sponsoring a Japanese Film Series, "Japanese Literary Works in Film" this term.

The series is being jointly sponsored by The Japan Foundation which organized the circulation of the films to a number of colleges and universities in the United States with a view to enhancing the understanding of Japanese culture.

The films will be shown in Uris Hall auditorium. Admission is free. The films will be shown on Thursdays at 8 p.m. and on Wednesdays at 4:30 p.m. The schedule is: Thursday, Jan. 24, "The Precipice" (Masumura, 1958); Wednesday, Feb. 6, "Okoto and Sasuke" (Shimazu, 1935); Thursday, Feb. 7, "House of Geisha" (Naruse, 1956); Wednesday, Feb. 20, "Tales of Genji" (Yoshimura, 1951); Thursday, Feb. 21, "Chikamatsu Monogatari" (Mizoguchi, 1955); Wednesday, March 5, "Legend of Bailiff Sancho" (Mizoguchi, 1954), and Thursday, March 6, "Heart" (Ichikawa, 1955).

English Classes

The Cornell Campus Club International Hospitality Committee is



"The China Doll"

Sailing Courses Start in March

Two new sailing courses open to all members of the University community and utilizing the Navy ROTC's 50-foot training vessel, The China Doll, will be given this spring.

Registration for the classes, which are limited to 25 persons each, will be in Teagle Hall Jan. 17 and 18 from 8 a.m. to noon and 1 p.m. to 4 p.m.

The courses begin the first week in March and will last eight weeks. Principles of Sailing will meet Thursdays, 4:45 p.m.-7 p.m. and Intermediate Sailing will meet Tuesdays, 4:45 p.m.-7 p.m. They are being offered by the Department of Physical Education.

Both courses also will utilize the International 420, a popular intercollegiate racing dinghy. Lectures, films, demonstrations, and guest lecturers will make up part of the program at the University. In-boat sessions will be held at the

Allan H. Treman State Marine Park and the Ithaca Yacht Club.

The course objectives are:

Principles of Sailing—an eight-week course to teach the newcomer the jargon, skills, and safety of basic small and large boat sailing. Areas to be covered will include: knowledge of sailboat components; sailing theory and practice; basic boat handling, safety, and rescue techniques; wind and weather; and marlinspike seamanship. Students will be taken from the most basic areas of getting to know the sailboat to rough weather handling.

Intermediate Sailing—an eight-week course to teach students, already familiar with the basic principles of sailing, more advanced techniques such as: cruising theory and practice; basic piloting; racing strategy and tactics; sail trim and tuning; spinnaker usage; and heavy weather techniques.

Olympics Guide Offered for Sale

"Dorothy Hamill's Guide to Enjoying the 1980 Winter Olympics on TV" is now on sale to the public at both offices of the Cornell University Federal Credit Union.

The \$1 guide for the games at Lake Placid Feb. 12-24, 1980, can be purchased either at the Credit Union office in Bailey Hall or at the East Hill Plaza office.

Half of the price goes toward production costs of the guide which is being distributed nationally by the National Credit Union Associa-

tion. The other half goes to the Lake Placid Organizing Committee to support a permanent training facility there for U.S. Olympic hopefuls.

The 16-page guide includes information on top Olympic contenders, a history of the games, a who's who of champions and a daily schedule of events.

The National Credit Union Association will be the chief sponsor of the ABC-TV coverage of the 1980 Winter Olympics. Hamill, former Olympic figure skating champion, will appear on behalf of credit unions during the games and in several television specials to promote both the games and credit union membership and benefits.

The guide is being distributed exclusively through credit unions across the country.

Status of Women Nominees Sought

The Provost's Advisory Committee on the Status of Women is seeking self-nominations in order to fill the committee slot for a "para-faculty" member. Lecturers, instructors, research associates and extension associates are eligible. To make a self-nomination or for additional information, call Ann Roscoe, 6-7596.

Reception Planned For the DiRussos

With more than 63 years of combined service to Cornell behind them, Louis and Angela DiRusso have decided to retire.

Louis, senior gardener in the Department of Buildings and Properties has been at Cornell since 1932. "Angie," a laundry worker in General Services, has been here since 1963. Louis' father, Louis Sr., was also a Cornell employee and worked here for approximately 38 years.

A reception in their honor will be held from 3 to 5:30 p.m. Friday, Feb. 1, at the Big Red Barn. Anyone interested in attending should contact Evelyn Baylor, administrative manager, Laundry Services, at 256-5343 before Tuesday, Jan. 29.

Contributions to a gift fund, which will be presented to the DiRussos' at the reception, may be sent to Baylor at 120-126 Maple Ave. All checks should be made payable to Baylor rather than to Cornell.

Alumni of TC3 Invited to Party

Many former students and staff of Tompkins-Cortland Community College are now studying or working at Cornell, according to Becky Valley, a Cornell student who is TC3 alumni president. She said all such former TC3 people are welcome at a Homecoming party this Saturday at the Forum and Fireplace Lounge of the college.

For \$3 per person, at the door, the event will include a dance to "oldies" music, munchies and a cash bar.

Volunteers Needed By Track Program

The Cornell track program is in need of volunteers.

While Coach Jack Warner has an ample number of sprinters, javelin throwers and the like, he does need

officials. Male or female graduate students, faculty and staff who would like to volunteer should contact Warner at 6-3475.

Warner emphasized that officiating experience is not necessary. "If they're interested, we'll teach them to be timers, judges and inspectors," Warner said.

There is no money in being a volunteer track official, though Warner points out that the job does afford a good vantage point for some six meets during the indoor and outdoor seasons.

Students May Get Refund Checks

Students with credit balances on their Cornell Bursar accounts may be entitled to a refund check, according to Gene Wheeler, associate bursar. Such students may arrange for a refund—made only by check—at the Bursar's office, 260 Day Hall, between 8 a.m. and 4:30 p.m. Monday through Friday.

In order for them to be ready the next week, refund checks must be requested by 4:30 p.m. on Thursdays. The checks are usually available after noon the following Wednesday in the Accounting Office, 130 Day Hall.

Work-Study Jobs Signups Feb. 1

Student sign-ups for summer 1980 work study jobs begin Friday, Feb. 1, at the financial aid office, 203 Day Hall.

Because funding may be limited, it may be necessary to award summer work study based on the earliest date of sign-up and completion of the 1980-81 financial aid application.

The financial aid application is completed when the application, 1979 tax return copies and financial aid form (FAF) are received together at 203 Day Hall.

Work study is available only to students with a demonstrated financial need.

Adds and Drops

The Freshman Seminar Add/Drop session will be held from 8 a.m. to noon Saturday, Jan. 19, in the Art History Gallery in the basement of Goldwin Smith Hall.

Diet Workshops

Diet Workshop will be holding meetings every Wednesday from noon to 1 p.m. in the NROTC blockhouse in Barton Hall. For further information, call 277-2112 or 272-7766.

Orientation Is Underway

(Continued from Page 1)

21-22, from 10 a.m. to 3 p.m. in the Memorial Room, Willard Straight Hall, there will be an Activities Fair. Various student organizations will have displays and members will be there to answer questions and sign up new members. The fair is being sponsored by the Living/Learning Center.

A rape prevention seminar, presented by the Department of Public Safety, is scheduled for 8 p.m. Tuesday, Jan. 22, in 117 Ives Hall.