



Reserved Parking Helps

One of the few people on campus who has a reserved parking spot for his bike is Kenneth Greisen, dean of the Faculty.

African Investments Opposed

Twelve speakers spoke against continued investment by Cornell in businesses having operations in South Africa during a three-and-one-half hour hearing yesterday with members of a University Board of Trustees' ad hoc committee. No one spoke in favor of continued investment during the hearings in the One World Room of Anabel Taylor Hall. The hearing was sponsored by the Campus Council.

The speakers repeatedly presented arguments and evidence against the validity of the two most often heard justifications for continued American investment in South Africa. These are that certain black leaders in South Africa have stated that they are opposed to divestment and that the business world can do more to effect moral change and to benefit blacks by staying there than by pulling out of the country.

Copies of all the presentations will be available in the office of the Campus Council at 133 Day Hall. Also, all members of the Cornell community still may submit double spaced typewritten statements on the subject through Sept. 27.

These statements will be turned over to the ad hoc committee for consideration in its charge to explore the social, fiduciary and financial impacts of

Floating Holidays Extend Christmas

Cornell's two "floating holidays" will be granted this year on Dec. 28 and Dec. 29, creating a 10-day Christmas-New Year's holiday for most employees.

The University will close on Friday night, Dec. 22, and reopen on Tuesday, Jan. 2.

Announcement of the schedule of holidays to be observed by the University during the remainder of 1978 came in a memorandum to Cornell deans, directors and department heads from Robert V. Sweetall, acting director of University personnel services.

The memo stated that, as usual, Thanksgiving Day, Nov. 23, and the day after, Nov. 24, will be holidays at Cornell.

The two "floating holidays" were added last year to the University compensation plan. They have been designated "floating holidays" because "they may be observed on different days each year depending upon the operational needs of

New Adjustments in Budget Expected to Hit \$7.5 Million

Despite the strenuous steps taken during the past few years, Cornell continues to face severe financial constraints, President Frank Rhodes told the Executive Committee of the Board of Trustees Tuesday and the Faculty Council of Representatives Wednesday.

He said the University must meet its academic commitments and sustain its existing strength "within the constraints of a balanced budget."

"Achieving financial equilibrium has been a continuing goal for the University," Rhodes said, "which has gained urgency with the erosion of the University's reserves and the confirmation of relentless inflation. Other problems such as the high cost of building maintenance and the financial difficulties of the Medical College add to our difficulties. The goals presented to the Executive Committee reflect an updating and reassessment of earlier plans."

Achieving the equilibrium the University seeks will now require a budget adjustment of some \$7.5 million (in 1978-79 dollars) in annual general purpose budget funds for the endowed units in

Ithaca, Rhodes said, which should be accomplished over a three-year period.

Applying the anticipated inflation rates during the next three years is expected to bring the actual level of adjustment up to \$9.4 million in 1981-82 dollars, he said.

Rhodes said, "Over the past decade, operations of the endowed units at Ithaca have required expenditure of some \$45 million of capital funds. Yet our facilities still suffer from inadequate maintenance investment, while personnel and expense budgets of both the colleges and support services reflect the pressures of a decade of lean years."

Rhodes said he and other members of the administration will be talking with various groups and individuals in the Cornell community about ways of coping with the University's financial problems, and plan to take some specific programs to the Board of Trustees at its January meeting.

The president said that because of the complexity of Cornell, "any statement of goals must be seen as a common denominator, and the general

framework within which the missions of individual programs and colleges must be defined and pursued."

He said uppermost in the University's planning must be a commitment to maintain excellence and diversity.

Rhodes said the University's planning also must recognize overall expense growth one to two points above the general rate of inflation, particularly in the light of the increases which must be expected in costs of energy, scientific equipment, and plant maintenance. He also said the outlook for increased state and federal aid is not good in light of declining national enrollment and pressures for tax relief.

He said the Cornell Campaign will have a positive effect, with the case portion of gift commitments expected to reach the \$35 million level each year during the three-year adjustment period. "However," he said, "both operating and capital gifts are likely increasingly to be designated for specific programs or to be given for endowment and facilities."

He said, "We shall examine present organizational arrangements

Year-End Results Improved

The University finished its last fiscal year in better shape than expected earlier, thanks to some significant savings and some unexpected late gifts, the Executive Committee of the University's Board of Trustees was told Tuesday.

Vice President for Financial and Planning Services Samuel A.

Lawrence told trustees that unaudited results show the deficit in general purpose funds for the endowed units at Ithaca was \$645,000, an amount \$250,000 below the approved operating plan.

In the statutory colleges, expenditures exceeded receipts to general purpose funds by \$261,000, and in the Medical College in New York City expenditures were \$1,053,000 over general purpose receipts. In addition, \$1,898,000 of capital funds was applied to University operations in accordance with a formula through which a "total return" is calculated from a portion of the University endowment.

Lawrence said, "A very gratifying aspect of our general fund results is that savings of some \$1.7 million were achieved against budgets in the endowed colleges at Ithaca. This was some \$500,000 above the amount of savings which had been built into the budget plan and reflected a very broad-based effort on the part of both academic and support departments."

He said savings accomplished in other sectors of the endowed units were "sufficient to offset the overexpenditure in the Arts College. Had it not been for the Arts overexpenditure, we would have enjoyed a balanced budget in the Ithaca General Purposes Fund report."

Most of the University's auxiliary enterprises and special programs financed from designated funds exceeded their targets, he said, and total giving was \$33.5 million, the highest ever received by the University.

Designated funds include such things as money earned, but set aside for future expenses, internal service enterprises, the School of Business and Public Administration's Executive Development Program, the Statler Inn operated by the School of Hotel Administration.

Lawrence said that during the fiscal year the University suffered a paper loss of \$10.6 million in the value of its securities in the stock market, but that in the two months since the close of books on June 30, it has regained that loss. The more serious concern, he said, is the hidden erosion in the real value of the endowment caused by inflation. With inflation running at over 7 percent per year, Cornell needs to add almost \$20 million to its invested funds simply to stay even.

See chart on Page 3.

Admissions Office Adopts Regional Recruiting Plan

New names and new responsibilities are major aspects of a new approach to student recruitment here.

The Office of Admissions has two new staff members and two continuing members have new titles or activities. The changes are part of a regional recruiting effort that Cornell is launching this fall.

Susan H. Murphy, a 1973 graduate of Cornell's College of Arts and Sciences, has joined the staff as an associate director of admissions. Betty M. Smith, a former research assistant in the Office of the Registrar at Cornell, is a new assistant director of admissions.

John F. Spencer has assumed broader administrative responsibility and the new title of senior associate director of admissions; he has been in admissions at Cornell since 1965.

Lynn Marshall, a Cornell admissions officer since 1969, continues as an associate director, but now is also in charge of recruitment for Cornell's "southwest region"—Arkansas, Louisiana, Oklahoma, Texas, New Mexico, Arizona and California.

Murphy will be in charge of the "southeast region"—Tennessee, North Carolina, South Carolina, Mississippi, Alabama, Georgia and Florida.

Spencer will handle the New York State region, working closely with admissions representatives of Cornell's state units, "who have carried a disproportionately large share of the admissions activity load," Dickason said.

The regional admissions officers will be located in Ithaca, but will be responsible in their specific areas for all aspects of normal admissions activity.

Dickason explained the emphasis on the Southeast, Southwest and California by noting that there has been an increase in population in these areas recently and a less severe decline is expected there in the 1980s than in the Northeast.

"A major reason for this is the significant growth of business and industry in these regions," Dickason said, "and many of the managerial and professional people who have shifted are people whose children would be likely to consider Cornell."

"We're taking our efforts to the market," he said, adding that in recent years Cornell has attracted high quality students from these "growth regions," but low numbers of them.

Dickason said that regional operations in New England, the Middle Atlantic states, the Midwest and Northwest would probably be staffed within the next two years.

The increase in the size of the admissions staff will bring Cornell closer to equality with its peer schools in personnel, ac-

ording to Dickason. He believes the larger staff will enable Cornell to improve in identifying prospects and following up on inquiries.

Murphy and Smith, the new staff members, have had educational experience throughout the country.

Murphy worked as a guidance counselor—and headed the department immediately before coming to Cornell—for four years at Chatham (N.J.) High School. She holds a master's degree from Stanford University, and during the summer of 1976 was an interviewer in admissions in Cornell's Arts College.

Smith is a 1973 graduate of the University of Michigan. While at Michigan she had eight years of experience as a student and full-time employee in the registrar's office. She worked in a similar capacity in the Cornell registrar's office while studying for her master's, which she earned in January.

Stamp Comments On Court Ruling

Following is a statement by University Counsel Neal R. Stamp regarding the decision made public Sept. 12, 1978 by Judge Howard G. Munson in Federal District Court in Syracuse on the request for a preliminary injunction against the University by Marvin D. Glock, former professor of education in the New York State College of Agriculture and Life Sciences, who charges the University acted illegally when it required him to retire after reaching age 65:

"I have learned that a decision has been handed down today by Judge Munson that is adverse from the University's point of view. I understand that it is a 20-page decision and I will have no definitive comment on it until I have read the decision fully.

"I am not nearly as concerned about being enjoined to continue an individual professor pending the outcome of a full trial as I am about the legal principles on which the decision is based. I am anxious to examine the considerations which led Judge Munson to his decision."

Full Faculty to Discuss University's Finances

All faculty are encouraged to take part in an open discussion of the University's financial outlook at the first fullfaculty meeting of the term at 4:30 p.m. Wednesday, Sept. 20 in 120 Ives Hall.

Provost W. Keith Kennedy and special assistant to the president, James Spencer, will be on hand to respond to questions and listen to comments from the faculty. It is not known yet whether President Frank Rhodes will be able to attend the session. However, it is hoped that much of the dialogue will be based on a presentation on University finances he gave at yesterday's meeting of the Faculty Council of Representatives, which all faculty members were eligible to attend.

In a notice to deans and department heads asking them to encourage all faculty to attend the Sept. 13 and Sept. 20 meetings, Dean of Faculty Kenneth Greisen said: "The financial measures that must be contemplated will strike deeply. Fac-

Profile Moran, Master of Match

Preliminary data is being gathered for an in-depth behavioral study of Cornell Lacrosse Coach. Richie Moran to ascertain the cause-effect relationship between what he says and does and the performance of his teams: 119 wins and 14 losses, three national championships, and nine Ivy League championships.

Raw data gathered to date includes the following...often tells players that there is no "I" in the word team...carries extra whistle in pocket during practices to hand to any player who criticizes a teammate, the act gets the point across that he is the coach without a word uttered...says he never owned a bike as a child and grew up in a neighborhood on South Ninth Street in New Hyde Park where the only two bikes on the block were shared by all the kids...remembers when his father, a steamfitter, was among neighborhood volunteers who helped rebuild the synagogue down the street after it was gutted by fire...currently communicant of St. Catherine of Siena Church in Cayuga Heights...deliberately got office in Teagle Hall right next to most used entrance and exit...always keeps office door open while working...repeatedly buttonholes professors of his players to keep track of their academic progress...often greets players on campus with "where are your books?" if they are not carrying any...almost knows by heart cumulative average of each player...master of deflating oversized egos with phrases like "stay down on the farm kid"...appears to still be in personal contact with most of his former players... stresses that the reward for hard work is usually victory but always self-respect...pushes players to ultimate in practice so they won't fold under game pressure...emphasizes that players are at Cornell for academics first and athletics second and the need for organizing their time to fulfill this dual commitment... most interested in developing what he calls the marginal player... appears to find time for everything and everybody...laughs and jokes a lot...makes a practice of eating lunches at various student cafeterias and dining rooms on campus...relegated star player to last position on B team when he found out he fibbed about why he missed a practice, told him to work his way back up...he is 41...uses terms like honor, self-respect, honesty self-discipline, brotherhood...repeatedly tells team "if you love each other you'll love yourselves"...talks and moves rapidly and seems to have boundless energy...won't tolerate tardiness or alibis...practices structured down to last minute and seldom exceeds one and one half hours during academic year... while involved in a year-round whirlwind of activity concerning lacrosse and his players' total lives at Cornell he seems always to



Richie Moran

find time for his family: his wife Pat, their children Kevin, 12, Jennifer, 10, and Kathy 8...during last time out with 1 minute 25 seconds to go in the 13 to 8 loss to Johns Hopkins last spring for the National Championship he outlined strategy for a way he thought they might pull the game out but added if they didn't, not to forget the tremendous accomplishment they had achieved by winning 42 games in a row, that they had every reason to hold their heads high...says he likes people.

It is hoped the project's findings will provide a frame of reference for conducting attitudinal studies of Cornell lacrosse fans and particularly players. For example, such investigations could probe deeper into the meanings of the comment by three-time All-American Eamon McEaney that "there is no other man that I know who devotes himself to the game of lacrosse and to his players more than Richie, and he reaps what he sows." One question that could be clarified is did McEaney only mean that Moran has reaped one of the greatest won-and-lost records, to date, in the history of lacrosse or was he referring to things more profound?

Marty Stiles

Part-time Vice Provosts Confirmed

Two new part-time vice provosts were confirmed Tuesday by the Executive Committee of the Cornell University Board of Trustees at its meeting in Ithaca.

Don M. Randel, professor and former chairman in the Department of Music, has accepted a three-fourths time assignment, and Alison P. Casarett, associate dean of the Graduate School and associate professor of radiation biology at the University, has accepted a one-fourth time appointment, both for three-year terms. Both will continue to participate in teaching and professional activities.

The two replace Vice Provost Mark Barlow Jr., who had a full-time appointment, and Vice Provost June Fessenden-Raden, who continued to teach a course

while carrying a nearly full-time administrative load.

Randel received bachelor's, master's and doctoral degrees in music from Princeton University and was an assistant professor at Syracuse University for two years before joining the faculty at Cornell in 1968.

Casarett received her bachelor's degree from St. Lawrence University and master's and doctoral degrees in radiation biology from the University of Rochester. She was on the Rochester faculty for five years before coming to Cornell in 1963.

Provost W. Keith Kennedy, who proposed the appointments to the trustees, said that Randel had been a member of the search committee for the posts, but when he became a leading candidate for appointment he did not participate further in the committee's deliberations, at the request of Kennedy.

1977-78 Results

— See story on Page 1	ENDOWED ITHACA	STATUTORY COLLEGES	MEDICAL COLLEGE	TOTAL
	(\$'s in 000's)			
<u>Actual year-end results</u>				
General Purpose	(645)	(261)	(1,053)	(1,959)
Designated	1,720	77	685	2,482
Aux. Enter. & Svc. Depts.	316	-0-	180	496
Total	1,391	(184)	(188)	1,019
<u>Estimate of year-end results, prior report</u>				
General Purpose	(1,152)	(204)	(971)	(2,327)
Designated	169	222	446	837
Aux. Enter. & Svc. Depts.	434	-0-	(163)	271
Total	(549)	18	(688)	(1,219)
<u>Revised Operating Plan</u>				
General Purpose	(894)	812	(1,121)	(1,203)
Designated	64	304	350	718
Aux. Enter. & Svc. Depts.	196	-0-	(164)	32
Total	(634)	1,116	(935)	(453)

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Chronicle Comment

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

Real-Life Linus Seen at Equine Park



Hiring of Women Enumerated

Editor:

The Women's Caucus has just sent the following memorandum to President Rhodes and Provost Kennedy: "In the last six months many personnel changes have occurred at the upper administrative levels of the university. The openings created by these

moves provided Cornell with an unusual opportunity to demonstrate its commitment to Affirmative Action. The hiring record is as follows:

White Males: Provost, Dean, Arts & Sciences, Dean, Agriculture & Life Sciences, Dean, Human Ecology, Director of Com-

puter Services, Director of Design & Project Management, Director of University Relations, Director, Career Center, Chief of Plant Operations, Associate Budget Admin., Arts & Sciences, Associate Dean, Law School, Associate Librarian, Uris, Special Assistant to the President, Development Officer III.

Women-Minorities: Associate Dean, Agriculture & Life Sciences (white female).

We are appalled."

Mary Ott
Chair

Cornell Women's Caucus

Barbarism in Teagle Pool Protested; Can Be Ended

Editor:

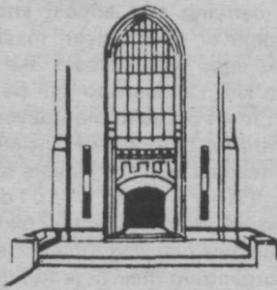
One definition of a barbaric behaviour is that each member of the group acts, directly solely by his will and needs. The swimming in Teagle Hall follows exactly this description! Could you imagine if we drove like we swim in Teagle?

In other places (e.g. University of Washington) the pool is divided into three sections: for fast, intermediate and slow swimmers. In each section the swimming is exactly the same as

driving (keep to the right). This way, the pool accommodates many more swimmers with considerable convenience.

Any claims that this method cannot be implemented in Teagle because people would not follow the instructions are hogwash. We, humans, are creatures of comfortable habits, when we find one, we stick to it. So, if there is somebody in charge, please do something!

Sason Shaik,
Chemistry



WILLARD STRAIGHT HALL

Job Opportunities

Continued from Page 2

Res. Supp. Spec. II, CPO4 (Plant Pathology, Geneva)
Res. Supp. Spec. II, CPO4 (Materials Science & Engr.)
Comp. Tech. Admin. I, CPO4 (Computer Services)
Res. Supp. Spec. I, CPO3 (Mat'ls Science Center)
Applications Programmer I, CPO3 (Computer Services)
Applications Programmer I, CPO3 (Computer Services)
Applications Programmer I, CPO3 (Computer Services)
Admin. Spvr., CPO3 (Media Services)
Res. Supp. Spec. I, CPO3 (Food Science & Tech., Geneva)
Res. Supp. Spec. I, CPO3 (Synch. Rad. Facility & Appl. & Engineering Physics)

Asst. Mgr.-Rad. Safety, CPO3 (Life Safety & Rad. Safety)

ADMINISTRATIVE POSITIONS

Director, Univ. Personnel Services (Personnel)
* Asst. University Counsel (University Counsel)
Executive Director, CPO8 (Office of Equal Opportunity)
Admin. Assoc., CPO6 (Public Safety)
Develop. Officer II, CPO6 (Univ. Development)
Admin. Manager II, CPO5 (Maintenance & Service)
Admin. Manager II, CPO5 (Utilities)
Cost Accountant, CPO5 (Controller, 1 year)
Admin. Manager II, CPO5 (Cornell Plantations)
Dining Manager II, CPO5 (Dining Services)
Budget Analyst III, CPO5 (Finance & Business)
* Dining Manager I, CPO4 (Dining Services)
Personnel Associate II, CPO4 (Personnel)
Regional Director I, CPO4 (Public Affairs, Reg. Offices, NYC)
Health Associate II, CPO4 (Univ. Health Services)
Assistant Production Director (University Press)
* SDS II, CPO3 (Asst. Director)(Financial Aid)
SDS II, CPO3 (Asst. Director) (A&S Admissions)
SDS II, CPO3 (Asst. Director)(Univ. Unions-Noyes)
SDS II, CPO3 (Asst. Director)(Univ. Unions)
SDS II, CPO3 (Residence Life)
* Accountant I, CPO2 (Accounting, Endowed)
Dining Spvr., CPO2 (Statler Inn)
* Research Support Aide, CPO2 (CRSH)
* Dining Spvr., CPO2 (Dining Services)

PART-TIME AND/OR TEMPORARY

Temp. Svc. Cler. (Public Affairs, Reg. Offices, temp.pt)
Temp. Svc. Cler. (Animal Science, perm. pt)
* Temp. Svc. Clerical (Admissions, temp. pt)
* Reserve Desk Asst. (A.R. Mann Library, temp. pt)
Sr. Admin. Secy., A-17 (Sociology, pt)
Lib. Asst. IV, A-17 (U. Libraries, Olin, perm. pt)
* Head Account Clerk, A-15T (National Submicron Facility, perm. pt)
Lib. Asst. III, A-15 (U. Libraries, Engineering, perm.pt)
Lib. Asst. III, A-15 (U. Libraries, Olin, perm. pt)
Admin. Secy., A-15 (CRSH, perm. pt)
Admin. Secy., A-15 (Botany, Genetics & Dev., perm. pt)
Admin. Secy., A-15 (Psychology, temp. ft)
Admin. Secy., A-15 (Arch., Art, Plann., perm., 20 hrs.wk)
Dept. Secy., A-13 (V.P., Campus Affairs, perm. pt)
Dept. Secy., A-13 (Mat'ls Science & Engr., perm. pt)
Dept. Secy., A-13 (Johnson Museum, perm. pt)
Library Searcher I, A-13 (U. Libraries, temp. ft)

Data Clerk, A-13 (Arch., Art, Plann., perm. pt)
Custodian, A-13 (Dining Svcs., perm. pt)(2)
Custodian, A-13 (U. Unions, Noyes, perm. pt)(2)
Night Spvr., A-13 (U. Libraries, Engineering, perm.pt)
* Dept. Secy., A-13 (Elect. Engineering, pt)
* Lib. Asst. II, A-12 (Univ. Libraries, perm. pt)

Lib. Asst. II, A-12 (Univ. Libraries, Olin, perm. pt)
Lib. Asst. II, A-12 (U. Libraries, Physical Sciences, perm. pt)
Clerk, A-19 (Public Affairs, Records, perm. pt)
Steno II, NP-6 (Div. Nutr. Sciences, perm. pt)
Steno II, NP-6 (Natural Resources, 1 yr., pt)
Steno II, NP-6 (Comm. Svc. Education, 1 yr., pt)
Steno II, NP-6 (Hum. Dev. & Fam. Studies, perm. pt)
Stockkeeper II, NP-7 (Entomology, perm. pt)
Janitor I, NP-6 (Avian & Aq. Animal Med., perm. pt)
Temp. Svc. Labor (Pomology, temp. ft)(30)
Temp. Svc. Svc. (Neurobiology & Beh., temp. pt)
Temp. Svc. Stockkeeper (Chemistry, perm. pt)
* Temp. Svc. Tech. (Plant Pathology, temp. ft)
Temp. Svc. Tech. (Field Asst.)(Plant Pathology, temp. ft)
Temp. Svc. Tech. (Lab Plasma Studies, temp. ft)
Temp. Svc. Tech. (DCS-Clinical Pathology, temp. ft)
Temp. Svc. Tech. (Biological Sciences, perm. pt)
Temp. Svc. Tecw. (LASSP, temp. ft)
Temp. Svc. Tech. (Environ. Engineering, temp. pt)
* Lab Tech. I, NP-8 (Ecology & Systematics, pt)
Lab Tech. I, NP-8 (Avian & Aq. Animal Med., Eastport, NY)
Programmer II, A-21 (Computer Svcs., temp. pt)(2)
Programmer I, A-19 (Computer Svcs., temp. pt)(2)
* Programmer (Government)(perm. pt)
Programmer I, A-19 (Psychology, temp. pt)
X-Ray Tech., A-17 (Health Services, perm. pt)
Tech. Aide I, A-15 (Mat. Science & Engr., perm. pt)
Systems Programmer III, CPO5 (Computer Svcs., 1 year)
Temp. Svc. Prof. (NYSSILR, temp. pt)
SDS III, CPO5 (Coord., Student Activities & Orientation) (Dean of Students, temp. ft)
Systems Programmer II, CPO4 (Computer Svcs., 1 yr.)
Regional Director, CPO4 (U. Development, Cleveland,pt)
Appl. Programmer I, CPO3 (Comp. Svcs., temp. pt)
Systems Programmer I, CPO3 (Computer Svcs., 1 year)
SDS II, CPO3 (Div. of Academic Svcs., temp. ft)
Res. Supp. Spec. I, CPO3 (Comm. Svc. Education, 1 yr., pt)
Admissions Counselor, CPO2 (A&S Admissions, temp. pt)
* Temp. Svc. Prof.(Paper Grader) (Comm. Arts, temp. pt)

ACADEMIC-FACULTY POSITIONS (Contact Department Chairperson)

* Extension Associate III (Div. of Nutritional Sciences)
* Extension Associate II (Div. of Nutritional Sciences)
* Research Associate I, CPO3 (CRSR)
* Sr. Res. Associate II, CPO7 (Elect. Engineering)
* Postdoctoral Assoc. (Botany, Genetics & Dev.)
* Postdoctoral Assoc. (Food Science & Tech., Geneva)
* Assistant Professor (Vegetable Crops)
* Professor, Labor Law (NYSSILR & Law School)
* Extension Associate I (Department of Entomology)
Lecturer (Field Study, Human Ecology)
Asst. Librarian, CPO2 (Univ. Libraries, Olin)
Asst. Librarian, CPO2 (Univ. Libraries, Olin)
Research Associate I, CPO3 (Vet Pathology)
Research Associate II, CPO5 (Chemistry)
Anesthesiologist (Dept. of Clinical Sciences)
Sr. Res. Associate (Agronomy)
Instructor (Asst. Technical Director)(Theater Arts)
Res. Associate I, CPO3 (Educ. Inst. for Res. & Development in Occupational Education)
Lecturer (Field Study Office)
Assoc. Director, Ag. Experiment Station & Assoc. Director of Research (Office of the Director of Research, CALS)
Director of Coop. Extension (N.Y.S. Coop. Extension Admin.)
COOPERATIVE EXTENSION (Contact 212 Roberts Hall)
* Extension Agent-Agriculture (New Hartford, NY)
* Extension Agent-4-H (Albion, NY)
* Extension Agent-Agriculture (Cairo, NY)
* Extension Agent-Home Economics (Plattsburg, NY)
* Extension Agent-Home Economics (Norwich, NY)
* Sr. Extension Assoc.-Water Resources (Ithaca, NY)

Sisler Wins Teaching Award

At a time when students at major universities often complain that professors would rather do research than teach, a Cornell educator has been singled out by his peers and his students, for the relentless energy and charisma he brings to teaching.

Daniel Sisler, a professor at the State College of Agriculture and Life Sciences, has been given the 1978 Distinguished Undergraduate Teaching Award of the American Association of Agricultural Economics, an award that requires evidence of at least 10 years of outstanding performance as an educator.

For Sisler, such evidence began to come in almost as soon as he started teaching. In 1964, three years after the agricultural economist first stood before a classroom, the senior class of the College of Agriculture and Life Sciences voted that he was the most outstanding teacher they had experienced at Cornell. In the 30 years that the graduating class has voted on this distinction, no other professor has been honored so quickly.

Although his main course, the economics of agricultural geography, has an enrollment of nearly 500 students each year, students have continuously lauded his accessibility and deep interest in both their educational and personal development and have named Sisler as the central motivating force in their education.

In 1975, this exceptional dedication was again honored when the State University of New York presented Sisler with the Chancellor's Award for Excellence in Teaching.

Sisler, a graduate of Purdue who received his doctorate from Cornell in 1962, also served as a visiting professor at the Economic Growth Center at Yale in 1969-1970.

Playwright Albee to Visit And Lecture at Cornell

American playwright Edward Albee and his five-member Repertory Company will be visiting Ithaca Sept. 21-22 for two days of classes, workshops, lectures and performances. He will meet with students and interested faculty for two informal discussions in Drummond Studio, one on Thursday at 2:30 p.m. and one at 10:30 a.m. Friday.

Albee will also give a lecture, open to the public, at 8:15 p.m. on Friday. The location will be announced in next week's Chronicle.

A performance of "Zoo Story" and "The American Dream" will be given at 8:15 p.m. Sept. 21 at the Strand Theatre, followed by a

lecture by the playwright. Tickets are \$4 for students and will be on sale at the Strand Box Office.

Albee's appearances on the Cornell campus are co-sponsored by the Cornell Council for The Creative and Performing Arts and Department, Theater Arts.

Albee began a project a year ago called "Albee Directs Albee" in which he directs his own plays in order to make his original intentions clear to the audience. Albee and his company have given performances abroad and visited college campuses across the country.

For information call the Theater Arts Department at 256-5165.

Wildlife Art Displayed

The paintings of Guy Coheleach, one of the nation's top wildlife artists, will be on display at the Laboratory of Ornithology, 159 Sapsucker woods Road, beginning Monday, Sept. 18.

Coheleach is a frequent contributor to Audubon Magazine and has done assignments for American Heritage, Life Nature Library, World Book Encyclopedia and Readers Digest. Several of his paintings also have appeared in the Laboratory of Ornithology's annual, "The Living Bird."

Prints of a Coheleach eagle are presented by the State Department to visiting heads of state, and one of his elephant paintings hangs in the White House.

Coheleach, a native of Long Island, studied art at New York's Cooper Union and worked as a commercial artist in New York City's advertising industry before devoting his energy to nature painting.

The Laboratory of Ornithology is open to the public from 8 a.m. to 5 p.m. Mondays through

Thursdays, from 8 a.m. to 4 p.m. Fridays, and from 10 a.m. to 5 p.m. Saturdays and Sundays.

Art Classes For Children Announced

Children will have a chance to say something through their own art in a series of Saturday morning classes to be conducted again this fall by the Department of Human Development and Family Studies.

From Sept. 23 to Nov. 18, Lambert Brittain, professor, and his students in the State College of Human Ecology, offer area fourth, fifth and sixth graders a wide variety of two- and three-dimensional materials for use in creating their own artwork. The emphasis is not on projects but on the individual — how he or she thinks, feels and sees.

Parents should pre-register their children by Sept. 15 by calling 256-2295 between 9 a.m. and 5 p.m. The program fee is \$3.

5X Is United Way Symbol; Campaign Begins Oct. 2

"5X" is a figure Cornellians will see frequently from now through the month of October. It is central to this year's pledge drive for the Tompkins County United Way Campaign.

"United Way dollars are cost-effective, efficient dollars," says Jerry Luisi, chairman of the Cornell Division of the Tompkins County United Way Campaign.

"The 5X signifies that it would cost at least five times as much to provide at public expense the services offered by the 32 United Way agencies in Tompkins County," Luisi explains.

"The message we want Cornellians to hear is that the money they pledge to the United Way is used efficiently, for the good of the people of the county and surrounding areas," he states. Because volunteers fulfill many United Way agency functions — supportive, administrative, and fund-raising — the agencies are able to keep costs down.

More than 500 Cornell volunteers will be working between now and the end of October to enlist the support of Cornell employees. Cornell accounts for more than 30 percent of the county campaign. Of the total county goal of \$720,350, Cornell's share is \$234,035.

The Cornell Division ranks right at the top in both per capita and average gift of major universities, including the Ivy League.

But Cornell people not only support the United Way, they

benefit from it, too. A survey conducted last year of Cornell United Way supporters indicated that one of four Cornell employees or family members was served by United Way agencies and programs.

Cornell employees who live outside Tompkins County should consider that many United Way agencies in Ithaca are the only such agencies in this part of central New York. Luisi points out. Challenge Industries, for example, employs handicapped people from four counties other than Tompkins. The Special Children's Center has clients in six other counties. The Alcoholism Council and Family and Children's Service also help out-of-county clients.

A gift to the United Way may be given in one lump sum, or it may be a pledged amount to be deducted in small portions from an employee's paycheck.

President Rhodes is scheduled to speak at a kick-off meeting of Cornell United Way volunteers at 8:30 a.m. Oct. 2 at the Statler Club.



Sunset Dramatizes the Johnson Art Museum



New Architecture Techniques Exhibited

A major show displaying new techniques in architectural design opens at the Herbert F. Johnson Museum of Art Wednesday, Sept. 20. "Architecture plus Media: Visual Com-

munication in Environmental Design" illustrates the growing emphasis on exploring the relationship of people to their environment.

New visual communication

techniques are being applied to architecture in highly creative ways, revealing the diversity of ideas and concerns of architects, planners, psychologists, and other environmentalists. The application of visual simulation processes, such as composite image design, photomontage, model photography, computer graphics, video design, and special effects photography, enables designers to study people's relationships with their environment and to explore, develop, and present new concepts in architecture.

Jerome Sirlin, assistant professor of architecture in Cornell's Department of Design and Environmental Analysis, organized the exhibition, which is partially supported by a grant from the Graham Foundation for Advanced Studies in the Fine Arts, and the Council of Creative and Performing Arts at Cornell. The displays by more than 25 participants were selected from throughout the country. An illustrated catalog accompanies the exhibition, which ends on Nov. 5.

Museum hours are Tuesday through Saturday, 10 a.m. to 5 p.m., Sunday 11 a.m. to 5 p.m., Wednesday evenings open until 9.

'The Faith of an Atheist' Is Sage Convocation Topic

L. Pearce Williams, the John Stambaugh Professor of the History of Science, will be the speaker at the Sage Chapel convocation at 11 a.m. Sunday, Sept. 17. His topic will be "The Faith of an Atheist."

Williams, who was professor of the history of science and chairman of Cornell's Department of History when he was named the Stambaugh Professor in 1971, is a specialist in 19th-century science.

His latest book, "Album of Science," documents the history of the dynamic growth of science in the 19th century. He has written six other books, including the prize-winning "Michael Faraday. A biography," considered



the definitive work on the British physicist.

After receiving a bachelor of arts degree with honors in history from Cornell in 1948, Williams began work on his Ph.D. degree, which he received in 1952.

Any More Questions?

The department of Spanish and Portuguese at the University of Kansas has a device for dealing with all those questionnaires that people in academe send to one another. Says the department's Jon S. Vincent: "We send (it) out to anybody who sends us a questionnaire":

A. General information

1. To how many different places do you send your questionnaires?

2. What is the percentage of response? (Please give in percentage, rounded to four decimals.)

3. What do you do with the results?

- Analyze, collate, sift, shift, and tinker
- Ignore
- Misplace
- Manipulate
- Don't know

4. Just how important are questionnaires, anyway? Please be succinct.

5. If you didn't send out questionnaires, is there some other activity you could find to keep you occupied?

- Yes
- No

Not legally

B. Not so general information

1. What, in your community, is regarded as a "standard deviation"?

2. Roughly how many of these people are there in your neighborhood?

3. Are any of them employed as school teachers?

4. Do you consider your community standards to be:

- Very conservative
- Fairly conservative
- Fairly liberal
- Very liberal
- More than three times a day

—From Chronicle of Higher Education

All items for publication in Cornell Chronicle must be submitted to the Chronicle Office, 110 Day Hall, by noon on the Monday preceding publication. Only typewritten information will be accepted.

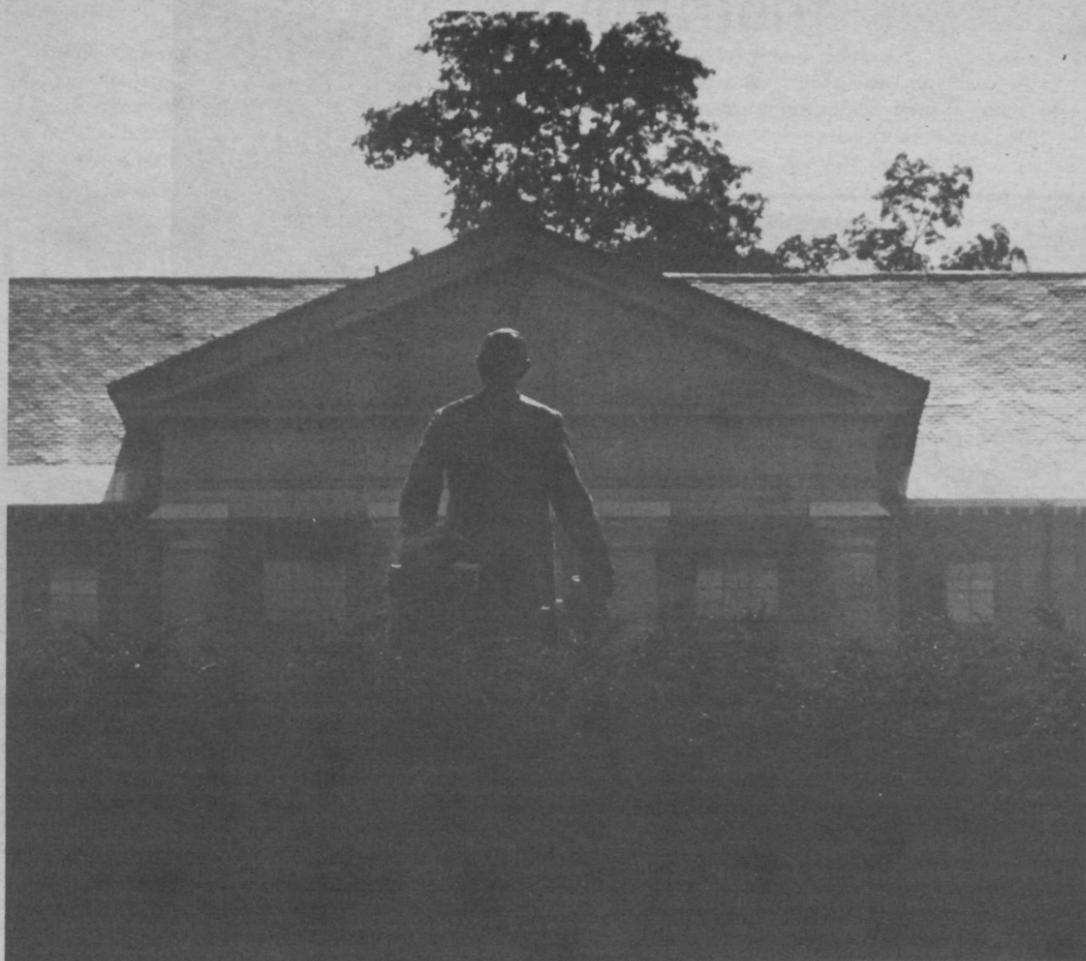
Theater Arts Chairman Named

Richard C. Shank, professor of theater arts, was elected to a three-year term as chairman of the Department of Theater Arts at Cornell University by the Executive Committee of the Cornell Board of Trustees at its meeting here Tuesday.

Shank, who has served three years on the Cornell faculty, succeeds Marvin Carlson, who resigned during the 1977-78 academic year.

After directing professionally in opera, television and off-Broadway theater for some 10 years, Shank joined the Cornell faculty in 1965 as an assistant professor and director of theater. He subsequently taught acting and directing at three other universities.

Shank is a graduate of Northwestern University and holds a master's degree from Yale University.



Mellon Funds Three Humanists

Three new postdoctoral teaching fellows in the humanities are beginning two-year appointments at Cornell this fall under grants made possible by a 1975 Andrew W. Mellon Foundation endowment of \$1.2 million to the University.

The three new Mellon fellows are Charlette Greenspan in music, Dennis McGilvray in anthropology and Mihai Spariosu in comparative literature.

Three fellows in their second year at Cornell under the Mellon grant are Harold Hodes in philosophy, Eva Rudat in Spanish literature and James Weinstein in Near Eastern Studies.

The two-year, \$12,000 per year fellowship awards will continue to allow humanists with recent Ph.D. degrees to carry on research and teaching within Cornell humanities departments, according to Anna Geske, who administers the Mellon Fellowship Program at Cornell.

The Mellon Foundation has made grants to some 20 major universities with the intention of

increasing opportunities for the continued intellectual growth of promising, non-tenured scholars of the humanities.

Greenspan has a 1977 Ph.D. in music history and literature from the University of California at Berkeley. Her thesis was on the operas of Vincenzo Bellini. This past year she was an instructor in ballet music, basic theory and piano literature in the University of California Extension Division in Berkeley. At Cornell she is teaching courses on music criticism and on the history of musical styles from Beethoven to Debussy.

McGilvray, who received his Ph.D. in anthropology in 1974 from the University of Chicago, has been assistant director of studies in anthropology at Emmanuel College, Cambridge University. He is returning to the United States after a five-month field study in eastern Sri Lanka. He will teach a fall course on the caste organization in South Asia and a spring course on ritual and belief systems in South Asia.

Spariosu, who has a 1976 Ph.D. in comparative literature from Stanford University, has been a visiting assistant professor at the State University of New York at Binghamton. His primary field is English literature from 1840 to the present, and he is teaching courses in literary theory and European fiction.

Second-year Mellon fellows are continuing their work. Hodes is teaching courses on philosophy and language and on deductive logic. Rudat is teaching a fall course on women in Hispanic literature and a spring course on independence and Romanticism in Spanish American literature. Weinstein is teaching courses on Biblical archaeology and the archaeology of the Near East.

Sponsored Programs Announces Deadlines

The National Endowment for the Humanities will not have a fall deadline date for fellowships for independent study and research. The only deadline date anticipated now is June 1, 1979.

DOT 1979 Research Program

The Department of Transportation has announced a Dec. 1, closing date for its fiscal 1979 program of university research... DOT has listed specific priorities within each of the following six broad categories: (1) control in transportation systems, (2) maintenance and rehabilitation of existing transportation infrastructure, (3) technology for advanced transportation systems, (4) transportation and community development, (5) transportation safety technology and (6) transportation planning

methodologies. Further information on the program may be obtained from the Office of Sponsored Programs, 123 Day Hall.

NYS Health Research

The New York State Health Research Council is soliciting research proposals designed to expand knowledge and understanding in ten high priority areas of health related research. Detailed research proposals must be submitted by Nov. 1. Application information is available in the Office of Sponsored Programs.

Correction

NEH deadline of Oct. 1 listed in the Sept. 7, 1978 Chronicle should apply only to *renewals* for research grants and *new* National Research Service Awards and Research Career Development Awards. The deadline for *new* research projects is Nov. 1.

Origin of Bird Flight Is Fuertes Series Opener

John H. Ostrom, the scientist who demonstrated that the immediate ancestor of the first bird, Archaeopteryx, must have been a small dinosaur, will deliver the first Fuertes Lecture of the 1978-79 academic year at 7:30 p.m. Monday, Sept. 18, at the James Law Auditorium, New York State College of Veterinary Medicine.

The lecture, "Archaeopteryx and the Origin of Flight," is sponsored by the Laboratory of Ornithology and is made possible by an endowment from George M. Sutton, wildlife artist and zoologist and Olin Sewall Pettingill, former director of the

laboratory. The endowment honors bird artist Louis Agassiz Fuertes and enables the laboratory to bring outstanding lecturers in ornithology to Cornell.

Ostrom, currently professor of geology and geophysics and curator of vertebrate paleontology at Yale University, has been a pioneer in research on the evolutionary origins of birds and bird flight.

Ostrom is editor of the American Journal of Science and the Peabody Museum Scientific Publications and has been a research associate of the American Museum of Natural History since 1964.

Sociologist to Lecture

Harvard University Sociologist Daniel Bell will speak on "The Future World Disorders" at 4:30 p.m. Sept. 21 in Kaufmann Auditorium of Goldwin Smith Hall.

Bell, a professor of sociology at Harvard since 1969, has been well-known as a writer, editor and lecturer for more than 30 years. Among his many books are "The New American Right," "The Reforming of General Education," "The Cultural Con-

traditions of Capitalism" and "History of Marxian Socialism in the U.S."

He was labor editor of Fortune magazine from 1948 to 1958, after having held editorial positions with Common Sense and The New Leader.

Bell's appearance at Cornell is sponsored by the Committee on University Lectures, in cooperation with the Department of Sociology and the Society for the Humanities.

Poppensiek to Be Inducted Into Veterinarian Society

Dr. George C. Poppensiek, the James Law Professor of Comparative Medicine at the New York State College of Veterinary Medicine, will be inducted as the first American veterinarian in the Polish Society for Veterinary Science during the society's sixth congress, Sept. 21-23, in Wroclaw, Poland.

Dr. Poppensiek's induction is in recognition of his "scientific collaboration and personal involvement in the training of Polish veterinary scientists." Dr. Poppensiek, who served as dean of Cornell's College of Veterinary Medicine from 1959 to 1974, was instrumental in establishing a veterinary exchange program

between Poland and Cornell. His research interests are infectious diseases of economic importance to the food producing industry.

Dr. Poppensiek will give two papers during the congress, one on silent infections and emerging diseases and the other on trends in veterinary medical education.

Andrew White Professor-at-large To Give Lecture

Andrew D. White Professor-at-Large Pierre-Gilles de Gennes, French theoretical physicist, will give a public lecture at 4:30 p.m. tomorrow in Kaufmann Auditorium. His topic is "The Concept of Percolation: Alloys, Gels, Spreading Diseases, Hydrology & Entanglement of Hair." He is on campus for three weeks, for the first time in his capacity as a professor-at-large. On the faculty of the College de France, Paris, Professor de Gennes is considered the leader of French theoretical physics.

CCTS Deadline Is Clarified

Sept. 22 is the deadline for applications for Cornell Children's Tuition Scholarships for the first semester of 1978-79. The deadline for CCTS for the second semester is Feb. 9, 1979.

Some confusion apparently arose last week when announcement of the Sept. 22 date was mistaken to mean that was the deadline for the entire academic year. Questions should be directed to the University's personnel benefits section, B-12 Ives Hall, extension 6-3936.

Program Offers Training In Academic Skills

A six-week modular program on academic skills is being offered by the Cornell Office of Learning and Teaching Services from Sept. 11 to Oct. 18. Any registered undergraduate or graduate student is eligible to participate in the free, non-credit program.

There are 10 sections to choose from with times ranging from 9 a.m. to 7 p.m., Monday or Wednesday or Tuesday and Thursday of each week. Each one-week module consists of two lectures. Topics covered include: organization of time, reading with better comprehension, note-taking techniques, skimming and scanning of material, listening, remembering and exam-taking skills.

The program is not just for students with reading and study difficulties, but any student who wants to improve his or her own academic skills. Students are encouraged by the office to take any of the modules they find interesting with no commitment to the rest of the program.

Students may also take the program on their own time using a new cassette series and a specially prepared manual, "A Manual of Techniques to Improve Strategies for Learn-

ing," available in the Campus Store. Tapes and recorders can be found at the Office of Learning and Teaching Services on the third floor of Olin Hall, Uris and Mann Libraries, student union buildings and the Veterinary College.

For more information or for academic skills counseling, call 256-3413.

Cornell Curator Is Delegate At Conference

Nancy Press, education coordinator and curator of crafts at the Herbert F. Johnson Museum of Art, is serving as a delegate to the eighth biennial World Crafts Council conference in Kyoto, Japan, Sept. 11-15.

"The choice of Nancy Press is a great honor to our museum," says director Thomas Leavitt. "Through the exhibitions she has organized here, she has earned a national reputation in the craft field. The contacts she makes at the Kyoto conference should enable her to expand the scope of our crafts exhibitions to an international level."



Health Associates Boost Gannett Service

Five years ago Caroline Biondi was the only nurse-practitioner working alongside physicians at the Gannett Medical Clinic. At first, the idea of a paramedical person treating patients was not well received by the physicians, nurses or patients.

"I was constantly explaining to everyone that I was not a doctor, but that I had additional training and skills beyond those of most nurses. It was a real struggle, at first, to be utilized as a nurse

interested in health care.

Becoming a health associate also gives nurses an opportunity to advance in their career as a practitioner rather than an administrator, Biondi says. "Before this option was available, highly skilled nurses could only move into nursing administration—become a desk nurse or something that takes you further away from the patient."

The main function of the

can handle, Ley stresses. "High fever or severe pain, persistent headaches or any problems involving surgical procedures should be seen by a physician," he said.

Because a student population is generally a healthy one with relatively minor problems, health associates can treat most cases with minimum referral to doctors. Nevertheless, frequent consultation between doctors and associates is required. Ley is in charge of all associates and meets with them weekly to discuss patient charts and specific problems. He has also developed a formulary or dictionary of drugs to be used under certain circumstances.

Sharon DiGeronimo, a nurse practitioner who worked as a gynecological specialist at the clinic for two years, stressed the importance of cooperation between the physician and health associate.

"We all understand Dr. Ley's philosophy on how to treat patients or what sort of medicine to use. If you differ with the physician's basic philosophy, the health associate will probably not work well in that environment. It's a team effort, with health associate and physician taking joint responsibility, and with the associate having a clear understanding of the treatments the physician would use in any given situation," DiGeronimo said.

A big question when it comes to using health associates in any medical setting is whether or not they will be accepted by patients. According to a recent survey taken by the clinic, out of a total 48,000 patient visits last year, 15,500 cases were seen or treated by health associates only.

"This shows that the associates are really used," explains Leonard Nissenson, health services administrator at Gannett. And, in many cases, the students singled out several of the health associates as concerned clinicians," he said.

Jill Casner-Lotto

FEATURE

practitioner," Biondi recalls.

The struggle paid off, though, because today there are seven paramedical persons or "health associates" working at Gannett; and because of their contributions, the quality of care students receive has improved tremendously and Gannett is a more "lively place to work," says Dr. Allyn Ley, clinic director.

"There's more reading of the latest medical journals around here than ever before. The more the health associates read and ask questions, the more it provokes the physicians to do the same. It means the physicians are constantly being challenged, and there's a more inquiring attitude around here," Ley said.

Health associates at Gannett are either nurse practitioners or physician assistants who work in collaboration with a physician. Nurse practitioners are experienced, registered nurses who have received a year's additional education and training at a jointly sponsored nursing and medical school program.

Physician assistants are not registered nurses, but have gone through a two-year medical program and are registered with the state. In both cases, says Ley, they are carefully trained professionals, who for one reason or another, can't or don't want to go on to medical school, but are still

health associate is to treat patients who have minor problems or common ailments that don't necessarily have to be seen by a doctor, according to Ley. "Most doctors have seen all the common colds they care to see, and would rather spend more time with patients who have more serious complicated problems. Before we had health associates here, the physicians were forced to take a routine approach with some patients. But, for the health associates, treating ailments such as minor fevers, aches or infections represents a new challenge."

"The result is that the associates often relate better to the patient than the doctor does, because in many instances they are more concerned with what they're doing and have more empathy and time to spend with patients," Ley added.

As Biondi explained it, the role of the health associate is designed to overlap that of the physician and nurse and make the physician more aware of the patients' needs.

The associates, like the physicians, are usually specialists in one area, such as athletic medicine or gynecology. In order to function best, health associates should always work within their limits and never go beyond the level of treatment they think they

Psychological Androgyny Is Bem's Goal

New Women's Studies Director Introduces Self

Traditional sex roles are restrictive for both males and females, since, in many cases, these roles predetermine our behavior, interests and preferences according to Sandra Bem, the new director of the Cornell Women's Studies Program and associate professor of psychology and women's studies.

Addressing an audience of about 200 men and women attending the first of weekly seminars sponsored by women's studies, Bem suggested that androgynous sex roles meaning a blending of both male and female roles—would allow individuals more options in their lives.

While adopting traditional male or female roles leads people to be concerned about whether certain types of behavior are "masculine" or "feminine," androgyny, said Bem, implies that "behavior has no gender—people have gender."

Historically, androgyny has been defined as the physical blending of the two sexes, as in a hermaphrodite. The modern definition, however, has come to mean a psychological or sociological blending of the two sexes.

Changing how people think about topics relating to sex roles has been the subject of Bem's research since the 1970s. In her research at Stanford University, Bem found that males and females became nervous and bothered when asked to do tasks considered inappropriate for their sex. When asked to iron a cloth napkin, several men refused—even when offered money and even with no one looking.

She also found that people who had rated themselves highly in possessing traits typically considered masculine were, in fact, very good at behaving in ways considered masculine—they were independent, assertive and stuck to their own guns in an argument even when others disagreed with them.

Those who were androgynous—rated themselves highly on both masculine and feminine traits—were good at being both independent and nurturant. And both qualities, said Bem, are needed in today's world, whether you're having children, or relating to friends, lovers and the people you work with.

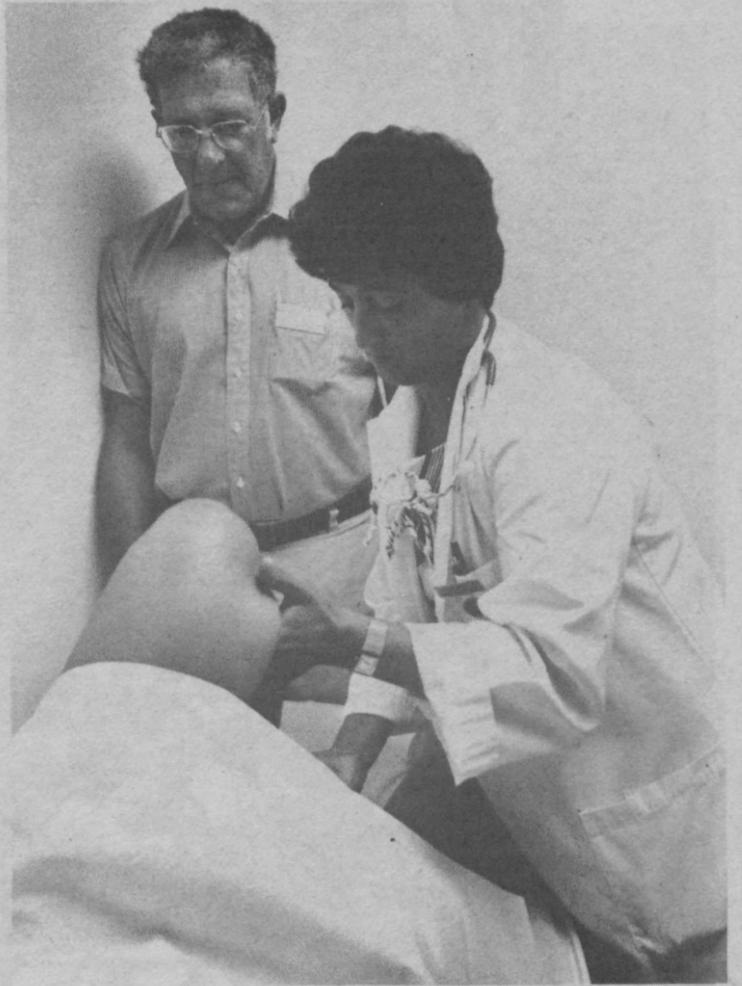
Bem admitted that she is biased in her research, but added that there is no such thing as

objective science. "A-I scientists have a reason for asking the questions they do. The important thing is to make your biases explicit," she said.

She said she considers an award she received for her research from the American Psychological Association in 1976 as public recognition that it is possible to do legitimate scientific research in a politically hot field.

Bem also did research for a law suit filed by the National Organization of Women against the Pittsburgh Press for its policy of segregating job ads into "female interests" and "male interests." She found that these labels created job preferences, so that males were steered into certain jobs and females into others.

Her research has also been used as evidence in law suits filed against American Telephone and Telegraph Co. for discriminating in its advertising and recruiting brochures, and against the U.S. Labor Department for not requiring goals and timetables for hiring women in the construction industry.



Caroline Biondi, nurse practitioner, and Dr. Allyn Ley, Gannett clinic director, examine a student with a knee injury in the Immediate Care Area. There are six other health associates at Gannett including four nurse practitioners: Ruby Brangman, Harriet Larrabee, Vivien Feigenson and Carol Hayes, gynecology, and two physician assistants: Don Hassen, orthopedics and Cort Bassett, sports medicine.

Program to Coordinate Acid Precipitation Study

A major new program to coordinate research on the effects of acid precipitation on plants and soils is being planned by the University's Center for Environmental Research and the the Boyce Thompson Institute, which will move to the Cornell campus this fall.

"A lot of work has been done on the chemistry of acid precipitation—how certain products of fossil fuel combustion increase the acidity of rain and snow—but the effects of acid precipitation over the long and short term are still a matter for debate," said Jay Jacobson, plant physiologist in BTI's environmental biology program and coordinator of the acid precipitation program.

"President Carter's energy program, with its emphasis on coal, might aggravate the acid precipitation problem, but government agencies need the fundamental information we can provide before they can decide whether an increase in the acidity of precipitation can be tolerated," Jacobsen said.

BTI plans to establish in Ithaca field laboratories in which the acidity of precipitation can be varied under otherwise natural conditions. Jacobson said that these kinds of experiments are needed to determine the effects of present levels of acidity, the effects of increased acidity and the benefits to be derived from decreases acidity.

The field facilities, he said, can be used to examine the direct effects of acid precipitation on plants and such secondary effects as whether acid precipitation exacerbates a disease or insect problem.

The field facilities will be available to researchers throughout the University with an interest in the effects of acid precipitation on plants and soils, he said.

Cornell scientists have been

pioneers in acid precipitation research. Studies have ranged from the initial discovery of the phenomenon and the elucidation of its mechanism by Gene Likens, professor of ecology and systematics, to the effects of acid precipitation on trout in high Adirondack mountain lakes by Carl Schofield, senior research associate in the Department of Natural Resources, to the effects on soils by Martin Alexander, Liberty Hyde Bailey Professor of Soil Science.

Jacobson hopes that the new program can compliment efforts already under way and stimulate new exploratory research. He plans to coordinate seminars throughout the academic year where proposed research strategies can be presented and critiqued and where basic and applied researchers can present their findings on the physics, chemistry and biological effects of acid precipitation.

Mortlock Appointed Chairman

Robert P. Mortlock has been appointed the new chairman of the Department of Microbiology at the N.Y. State College of Agriculture and Life Sciences.

For the last six years he served as the head and acting head of the Department of Microbiology at the University of Massachusetts.

For the past 17 years Mortlock has studied one of the rarest areas of microbiology, the ways in which mutations occur that allow bacteria to grow on new substances such as on synthetic sugars or pollutants.



NSF Approves \$1 Million Grant for Radiation Lab

An intense source of x-rays with energies much higher than can be produced by any other existing or planned facility in the nation will soon be available to researchers probing the basic properties of matter through a new facility at Cornell University.

The National Science Foundation has approved a grant of \$1 million over the next three years for construction of a radiation laboratory at Cornell, which will be known as the Cornell High Energy Synchrotron Source.

CHES will be associated with the Cornell Electron Storage Wing, a high energy particle accelerator being built at Cornell's Wilson Laboratory, also with support from NSF. Both facilities will be available to researchers nationwide.

These high energy x-rays, known technically as synchrotron radiation, are emitted when electrons are accelerated in circular paths in high energy particle accelerators. The radiation was once regarded as a nuisance by high energy physicists, who are interested primarily in the fundamental particles produced when the circulating electrons collide with stationary targets (or, as in the storage ring, with positrons).

Recently, however, synchrotron radiation has been recognized as a useful tool for physicists, material scientists, chemists, crystallographers and medical researchers studying the properties of materials that have both technological and biological importance.

The high energy x-radiation provided by CHES can be used, for example, in studies of the

structure of various enzymes and metal-containing proteins such as hemoglobin (the oxygen-carrying molecule of blood cells). The radiation also can be used to study the physics of heavy atoms, unravel the structure of complex crystals, and may even be used eventually in the development of electronic components very much smaller than currently available.

Connie Murray Leaves Cornell

Constance Murray, former associate dean of students at Cornell, has been named dean of student services at New Jersey Institute of Technology in Newark.

Murray had been a member of the professional staff of Cornell since 1974.

At Cornell, Murray was active in minority and women's educational development programs, participated as an elected officer in the University Senate and was responsible for the implementation and coordination of student activities and new programs.

War on Waste

In the continuing war on waste being waged on campus, several suggestions have been made repeatedly. Among these that have come to the University's War on Waste Committee is the following:

Leave pay envelopes unsealed and encourage recipients to recycle the envelopes in a box place near the check pick-up station.

If you have other suggestions, submit them to the War on Waste Committee, B-7 Day Hall. If yours is a good one, it might win a cash prize.

Population Shrinkage Studied

Shrinkage—reducing expenditures for everything from highways to water and sewage treatment plants as a result of declining population, efforts to conserve resources or taxpayers' unwillingness to pay for services—is being studied by researchers at the Center for Environmental Research with support from the National Science Foundation.

"For more than 30 years public works projects and services have been based on the assumption that demand will increase, but signs of shrinkage have appeared in local areas throughout the country," said Walter R. Lynn, professor of civil and environmental engineering and principal investigator of the shrinkage problem.

The passage of California's Proposition 13, and the tax revolt brewing elsewhere in the nation, may mean that citizens generally will have to get along with fewer public services or services of poorer quality.

The fertility rate—the number of live births per 1,000 women of child-bearing age—has hit an all-time low, and the effect is already being felt in the nation's elementary and secondary schools. College and universities are worrying about decreased enrollment during the next decade.

In the face of the declining fertility rate and increased energy conservation, electric utilities are being forced to revise their estimates of power demand and rethink the building of expensive generating stations.

"Researchers are just beginning to examine the large-scale implications of declining rates of growth and absolute reductions in size, but almost no one has looked at the specifics of how to reduce government expenditures, which services can or should be reduced and how," Lynn said.

Lynn, Richard E. Schuler, associate professor of economics

and environmental engineering, and Anthony Walters, associate professor of public systems and quantitative methods, will analyze the effects of shrinkage on local and regional water supply, sewerage and transportation systems, particularly problems caused by the decreased demand, and the effects on cost and quality of service of various methods of dealing with shrinkage.

"In times of decreasing demand, the whole financing picture for public projects changes," Lynn said. Most public works projects are financed by private investors who buy municipal or government bonds, but Lynn asked, "Will the private sector find it feasible to lend money for operations that will have fewer customers in the future than they do today? And if they won't, will the government have to become the underwriter or guarantor of public projects?"

User charges will be affected by decreased demand because costs of providing services do not decrease. Lynn recalled that during last year's drought in California, residents conserved water so successfully that the water utility had to raise its rates. Officials were warning that residents could end up paying high fees for no water at all.

Decreased demand coupled with rapid inflation and economic slowdown are likely to make people feel less well-off generally, Lynn said. "People may have to choose between more pot holes and murkier water or more disposable income. Either way, we're all going to feel the pinch," he said.

NSF Grant Helps Build Laser Research Facility

A new laser research facility for use by Department of Chemistry researchers is being constructed here with a \$76,000 grant from the National Science Foundation and additional support from the University. The laboratory is expected to be fully operational by early 1979.

The laser systems, which will be more powerful and versatile than any currently available to the University's chemists, will each consist of a dye laser powered by a solid-state laser similar to the kind used for laser fusion.

The system will be tunable to wavelengths between 5 microns and .217 microns, making available laser light in the infrared, visible and ultraviolet ranges.

Five faculty members, working in three main research areas, will be the facility's primary users, but it will also be available to others within the Department of Chemistry. The possibility of cooperative efforts with chemical, petroleum and optical companies also is being explored.

Professors H.A. Scheraga and Andreas Albrecht will use the new facility to conduct resonance Raman spectroscopy of biologically important molecules. Using the ultraviolet capability of the laser system, they will excite

the molecules, which resonate at wavelengths close to .25 microns, in an attempt to define details of their structure.

John Wiesenfeld, associate professor, will use the facility to study the photolysis of ozone, a phenomenon that occurs in the earth's stratosphere when ultraviolet light interacts with ozone to create an oxygen molecule and a free oxygen atom, both in excited states. In the laboratory he will study the effect of excess energy contained in the excited oxygen molecules and atoms on their reactivity.

Edward Grant and Paul Houston, assistant professors, will probe the energy states of dissociated molecules of various kinds. Houston will use the ultraviolet capability of the system to dissociate molecules, which he can then study using other features of the system. Grant will perform dissociations using the infrared capability of the system and study the energy dynamics of the dissociations.

The facility also will be used by the Department of Chemistry's mass spectroscopy group and others to obtain information on the electrical properties of intermediate molecules and ions not normally found in stable form in the environment.

Arts College Finance Director Appointed

Jack Lowe, who has been prominently involved in University finance and the funding of academic programs for 15 years, has been named director of finance for the College of Arts and Sciences, according to Dean Alain Seznec.

Lowe began his new assignment on Sept. 7. Since June 1977, Lowe has been a senior staff associate with the vice president for financial and planning services. He previously spent 10 years as associate director of academic funding after joining that office in 1963 as a projects representative.

"Jack will be the principal spokesman for the Arts College on financial matters," said Seznec, who explained that Lowe will be filling a position in the college that has been vacant since 1975-76 when budget cuts forced its elimination.

"Now more than ever, given the complexity of financial problems in this college and the University, it is essential to have someone with overall responsibility," Seznec said. "We have had the largest college budget (some \$22 million) and the smallest staff (two)."

Doris Rothermich, administrative manager in the Arts College, and Donna Wimberly, an administrative aide, will work under Lowe.

In his new role, Lowe will be the financial adviser in the Arts College. Seznec said Lowe will look at the ways the college does its budgeting, monitor expenses through the year, devise ways to make the budget and its processing more understandable to all, and maintain liaison with the central administration.

Duncan Hines Memorabilia Presented to Hotel School

Clara Hines, the widow of Duncan Hines, has presented the School of Hotel Administration with scrapbooks and other papers that provide interesting glimpses into the career of the man *The New Yorker* once described as "that purposeful vagabond," and *Newsweek* as "America's most famous eater."

Robert A. Beck, dean, said the Hotel School, is "pleased to have in its possession tangible links to the life of a man who probably more than any single person established the high standards reflected today in the American restaurant and hotel industry."

More by popular acclaim than design, Hines' name has become synonymous with good wholesome American food and comfortable lodging. His imprimatur, "Recommended by Duncan Hines," was coveted by the nation's restaurant owners and inn keepers.

When Hines died in 1959, just shy of his 79th birthday, it was estimated that he had traveled

more than two million miles in the United States. Mrs. Hines, who often accompanied her husband on his trips, gave the Hotel School 12 massive scrapbooks.

They contain journalists' reports of the last two decades of Hines' gastronomic pilgrimage.

It was not until 1938 that he turned his avocation for eating into a vocation.

The transition began at Christmas time in 1935, while he was working out of Chicago as a printing salesman. His Christmas card that year listed good restaurants and inns he recommended. His reputation mounted and he began to get more and more requests for lists. In what he hoped would cut down on the requests, he charged \$1 a copy.

Demand increased and in 1938 he left his job and devoted full time to his traveling and investigation of American cooking. He claimed to the end of his life, even after visits all over Europe, that American cooking was the best in the world.

Black Holes: So Big We Can't See Them

Black holes are frustratingly exciting. At least three times as massive as our sun but only a few kilometers in diameter, they are invisible to the best optical telescopes because nothing—not even light—can escape from their intense gravitational pull.

Astronomers who search for black holes are forced to rely on observations of objects that may be gravitationally bound to the invisible black holes or on studies of x-ray radiation given off by extremely hot gases just before they are swallowed by black holes. And much of the information on how black holes should behave comes not from observations but from computer simulations of how stars and black holes should interact over time.

Stuart Shapiro, assistant professor of astronomy at Cornell University, is one of a small group of theoreticians nationally trying to determine if black holes are responsible for the bursts of x-rays detected in seven gravitationally bound, globular clusters of stars in our galaxy. There are more than 100 such clusters orbiting our own galaxy, each containing between one hundred thousand and a million stars.

Astronomers generally agree that normal stars spend most of their lives burning nuclear fuel and eventually collapse, depending on their mass, to white dwarfs, denser neutron stars or the densest possible object—a black hole. Although the existence of black holes is still a matter of controversy, there seems to be no other fate possible for a collapsing star with a mass more than three or four times that of our sun.

Most x-ray sources that have

been detected so far in our galaxy seem to be part of binary star systems—a large star still burning its nuclear fuel and a collapsed companion (either a neutron star or a black hole). The x-rays are generated as matter is sucked from the outer envelope of the burning star by the dark companion and heated to many millions of degrees. In fact, the most likely candidate for a black hole yet discovered, the x-ray source Cygnus X-1, seems to be at least 10 times more massive than our sun and is linked to a big, bright star of between 20 and 30 solar masses.

X-ray sources in globular clusters are harder to explain because stars in these clusters have already evolved past the stage when their outer envelopes might feed a black hole, and they do not seem to be part of binary systems.

An alternative explanation for the x-ray emissions coming from globular clusters is that the clusters contain massive, central black holes—perhaps 100 to 1,000 times more massive than the sun—which feed on the gaseous debris from within the cluster.

Shapiro, together with Alan Marchant, a graduate student, has run a series of "Monte Carlo experiments" to test how stars in globular clusters should behave with and without a massive black hole at the center. He randomly positions "test stars" by "rolling dice," then simulates their subsequent motion on the computer.

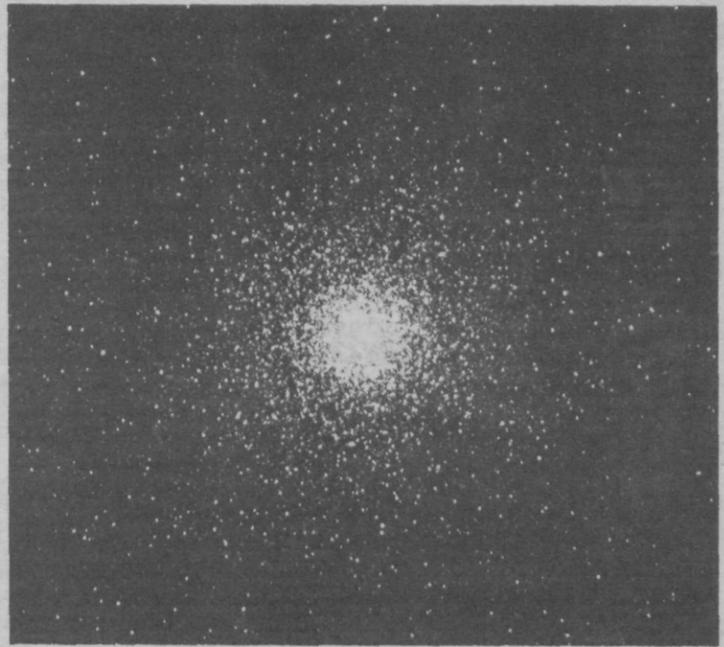
He has found that in clusters without black holes, the density of stars at the core of the cluster should be uniform at any moment while in clusters with black holes, the density should in-

crease as stars are drawn into the sphere of influence of the black hole.

An unambiguous test of whether or not a cluster contained a black hole would be to count the stars at different radii from the center of the cluster to determine if the density is uniform or if it increases toward the center. But the best optical telescopes on earth can resolve only stars in the sphere of influence of a black hole greater than 10,000 solar masses—an order of magnitude more massive than seems necessary to account for the x-ray emissions.

"We are reasonably confident that there are no black holes in globular clusters more massive than 10,000 solar masses, but optically we won't be able to determine for a long time whether there are any smaller black holes," Shapiro said.

Another approach to the problem, Shapiro said, is to pinpoint the location of the x-ray source within the cluster. For the gas-eating, massive black hole model to hold, the hole should be located at dead center. A new satellite to be launched next year should be able to locate x-ray



M3 is a typical globular cluster of stars in our galaxy. X-rays emitted by seven such clusters have caused astronomers to wonder if they might have black holes at their centers.

sources accurately within clusters and help resolve the question.

If globular clusters contain

black holes, stars that come too close to the black hole should be ripped apart, adding their matter to the gaseous debris that feeds the black hole, but they should be replaced by new stars moving toward the black hole.

"The process is similar to turning on the faucet and opening the drain in the sink at the same time. There is always water in the sink, but it isn't the same water," Shapiro said.

From his Monte Carlo experiments, Shapiro has determined that a black hole of 100 to 1,000 solar masses would have to rip apart a star only once every 10 to 100 million years to sustain the process of x-ray emission.

Items for the Bulletin Board must be typed and arrive in the Chronicle Office by noon of the Monday before publication.



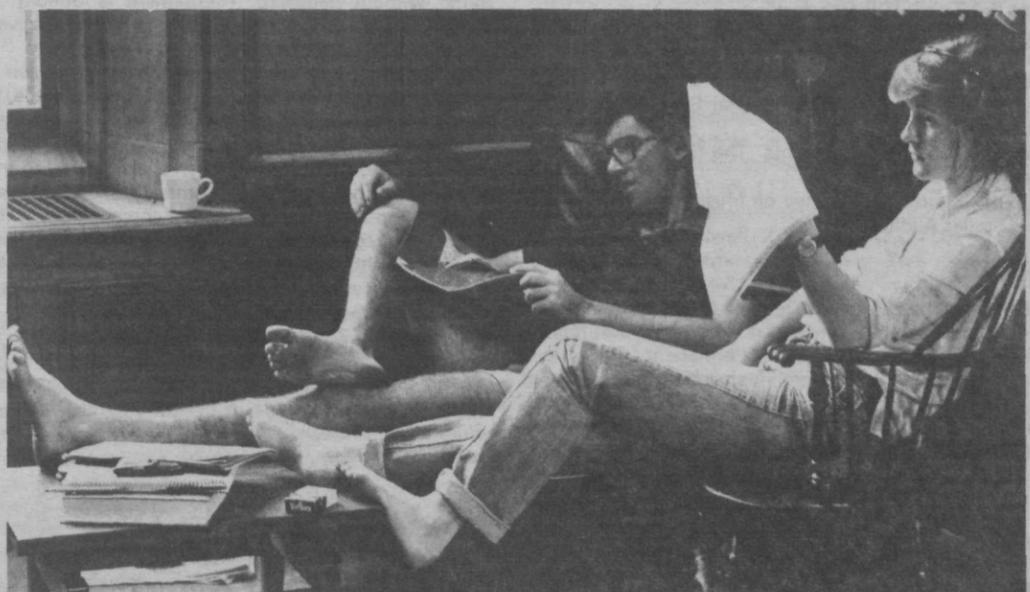
Liberated Feet Are Dress a la Mode



Bare feet, lauded in story, verse and drama, at Cornell are de rigueur until shod against the rigors of snow and ice.

Bare feet are seen everywhere on campus, skipping over sidewalks, snuggling in the grass. Bare feet go where dogs would fear to tread.

Breezy, easy, bare feet free one's mind to concentrate on studying, shopping and socializing.



\$7.5 Million Budget Adjustment by 1981-82

Continued from Page 1

ments to avoid duplication and fragmentation and combine existing strengths when more effective academic and operating arrangements are possible." He said the concept of "One Univer-

sity" will continue to increase in importance.

Rhodes quoted from the 1975 Weiss Committee report on financial equilibrium, which said, "There is perhaps no such thing as true financial equilibrium in the life of institutions. New pres-

ures and opportunities tend to overtake us before past problems have been fully resolved. Nonetheless, equilibrium is a proper and necessary objective for University finance."

The breakdown of the \$7.5 million onetime budget adjust-

ment is outlined by Rhodes in the accompanying table.

One thing, Rhodes said, must be changed from past practices. He said the temporary measure adopted first in 1975 to apply to operations up to \$750,000 per year of unrestricted bequests and mature life income funds must be stopped.

He said it is important, too, to "establish a continuing academic development fund to experiment with new approaches to teaching and research and to meet start-up and transition costs for academic programs."

He said members of the University community "must recognize that the income from new endowments realized through the Cornell Campaign is likely to

be largely absorbed in meeting the growing costs of ongoing programs and that tuitions at Cornell and its peer institutions will probably need to be increased at 1 to 2 percent above national cost indices for the indefinite future." Rhodes said that it is expected each college and

major support unit will be given a ceiling as to general purpose funds which they may expect to be appropriated for their operations for the next three years. After that, he said, "each unit will be expected to develop a plan

demonstrating how its operations can be tailored to the stipulated figures in a way which will preserve long-term strength."

Regain budget balance		\$3.5
Eliminate operating deficit, general purpose budget accounts	\$2.2 mil	
Eliminate excess payout from Capital Fund	1.3 "	
Rebuild invested funds		1.5
Provide an income reserve	.7 "	
Assign greater portion of major gifts and bequests to endowment	.8 "	
Reallocate resources within operating budget		2.5
Provide competitive salaries, responsible support of academic programs, and new opportunities	1.0 "	
Preserve and update physical plant	1.0 "	
Restore equipment funds	.5 "	
Total in 1978-79 dollars	----	\$7.5

Books Serve Many Purposes



Volunteer Orientation Set

The School Volunteer Tutorial Program, sponsored by CIVITAS, will hold an orientation meeting, at 3:30 p.m. Monday, Sept. 18 in the Founders Room, Anabel Taylor Hall.

Every semester many Cornell students act as tutors and friends to youngsters who need an extra helping adult to overcome a learning difficulty and find a new sense of selfconfidence. tutors in academic subjects at the secondary level are always welcomed by Ithaca's traditional junior high and high schools as well as by the alternative programs, grades 7-12. A time commitment of two hours, at least once a week, and preferably twice a week, is required, and we ask that you consider this a semester's job.

Some schools are within walking distance of the campus, others are on city lines. We appeal especially to students with cars and or extra time to give so that help may be offered to outlying rural schools. Try to come to the orientation meeting, but, if you can't, let us know you are willing to help, and we will make another arrangement for you.

Volunteer Opportunities for Health Students. Orientation meetings will be held at 1:10 p.m. Wednesday and Thursday in the Founders Room, Anabel Taylor Hall. Opportunities to work directly with physically and mentally handicapped children and adults, the elderly and the physically ill will be discussed.

Limited counseling experiences are available in programs for the drug and alcohol dependent, battered women and the bereaved.

Projects in administrative agencies whose services involve health-related program planning also need assistance. These opportunities will help you develop interpersonal and organizational skills useful in a health career.

CURRENT COMMUNITY NEEDS

REQUESTS FROM LOCAL MUSEUM AND SMALL ART GALLERY for receptionists, researchers and catalogers, or volunteer coordinators, publicity managers and helpers in exhibition organization. On-the-job training provided for the inexperienced. Located within easy walking distance of campus. Hours flexible.

INFANT CARE AND PRESCHOOL DAYCARE: Opportunities developing skills in area of infant care and preschool education. Time commitment and hours flexible; locations convenient to Cornell campus and downtown. Degree of experience not a concern.

ORAL INTERPRETER needed to help Cornell student with hearing problem while he attends classes in School of Architecture. Thursday afternoons, 1:25-3:20 p.m.

ELEMENTARY SCHOOL NEEDS JAPANESE AND DANISH SPEAKERS: Eight children between the ages of 8 and 12 need translators to help them learn English; are Japanese and two are Danish. If help is made available now, they will probably become bilingual by Christmas. This need is urgent, and help is welcomed at any time on any day.

COMMUNITY SELF-RELIANCE CENTER: Educational and action center with the purpose of promoting and developing more self-reliant and environmentally sound ways of living and working. Fall projects are in such areas as transportation (Route 96 and car pools), small farming, alternative health projects, coffeehouse for youth. Volunteers with diverse skills needed. Weekly staff meetings Tuesday, 10-12 noon. Hours and days of volunteer work flexible.

TO RESPOND, PLEASE CALL CIVITAS, 256-7513, Monday through Friday, from 10 a.m. to 2 p.m. or drop by Room 125, Anabel Taylor Hall.

Calendar

Continued from Page 12

10:45 a.m. Lutheran Church Worship Service. Nursery care provided. Coffee hour following service. Church school prior to service at 9:30 a.m. 109 Oak Avenue.

11 a.m. Ithaca Society of Friends (Ouakers). Meeting for worship. Anabel Taylor Forum.

11 a.m. Sage Chapel Convocation: John E. Biersdorf, director, Institute for Advanced Pastoral Studies, Bloomfield Hills, Michigan.

8 p.m. *Cornell Cinema presents "The Garden of the Finzi-Continis." Uris Hall Auditorium.

8:15 p.m. *Faculty Committee on Music presents "Julliard Quartet." Statler Auditorium.

Exhibits

Olin Library: "The Splendor of Islamic Art." through Oct. 29.

Herbert F. Johnson Museum of Art: "James Abbott McNeill Whistler," through September; "Permanent Collection," through September; "Peter Berg: Installation," through Oct. 15; "Cornell University Department of Art Faculty Exhibition," through Oct. 15; "Architecture + Media: Visual Communication in Environmental Design," Sept. 20 through Nov. 5.

Announcements

Intramural Golf, Team Championship, Men, Women, Co-ed.

The deadline on entries is Thursday, Sept. 21 at 4 p.m. in the Intramural Office, Grumman Squash Courts Building. Teams will consist of two players. There will be a charge of \$3 each, due with your roster. Play will be 1-18 hole best ball stroke play round without handicap. Tournament is Sunday, Sept. 24 starting at 1 p.m. Checks payable to Cornell University Golf Club.

Broomstick Polo, Mixed Open. The deadline on entries is Monday, Sept. 25 at 4 p.m. in the Intramural Office, Grumman Squash Courts Building. Minimum of 5 to enter, 3 will constitute a team, playing through a straight elimination tournament. Due to the fact that we are limited to the number of teams that can be accepted, entries will not be accepted until Friday, Sept. 22 at 9 a.m. on a first come, first serve basis, only 1 team per organization. There will be a fee of \$10 per team to enter, due with your roster. Checks payable to Department of Physical Education and Athletics, Intramural Division.

Squash, Men Women, Co-ed. The deadline on entries is Monday, Sept. 25 at 4 p.m. in the Intramural Office, Grumman Squash Courts Building. Play Starts Monday, Oct. 2 evenings. When submitting your entry, please sign your team's name on the tournament schedule in the Intramural Office. Additional information available in the Intramural Office. One person comprising a team, except co-ed.

"Agriculture in China Today," Jan and Cornelia Flora, Sociology, Kansas State University. Illustrated with slides, discussion to follow. Sponsored by CRESP and Rural Sociology. All welcome. Warren 32.

4:15 p.m. Marathon Program presents James M. Hartshorne on "Aerobics and Health," and movie "Marathon." All welcome. Barton G-1.

9 p.m. *Cornell Law Students' Association presents a dance featuring live music by "Canon." Hughes Hall Cafeteria.

Wednesday, September 20

12:30 p.m. Lutheran Eucharist Service. Anabel Taylor G-15.

7 p.m. Herbert F. Johnson Museum of Art presents two experimental films: James Broughton's "Dreamwood" and Larry Jordan's "The Sacred Art of Tibet." H.F. Johnson Museum.

Thursday, September 21

1-3 p.m. Cornell University Campus Club Reception. A welcome to newcomers and sign up for activity groups. Women employees, wives of employees, women graduate students, wives of graduate students, retired faculty and wives of retired faculty are all eligible to join this club. North Campus Union first floor lounge.

Friday, September 22

12:15 p.m. Alternative Agriculture's Bag Lunch Seminar: "Agriculture in the Transition to a Sustainable Society," Fred Buttel, Rural Sociology. Sponsored by CRESP and Rural Sociology. All welcome. Warren 32.

Late Entries

Friday, September 15

12:15 p.m. Alternative Agriculture's Bag Lunch Seminar:

Bulletin Board

Items for the Bulletin Board must arrive in the Chronicle Office by noon of the Monday before publication.

Folk Song Concert Set

John Roberts and Tony Barrand will perform traditional folk music in a concert sponsored by the Cornell Folk Song Club at 8:30 p.m., Friday, Sept. 15 in the Memorial Room of Willard Straight Hall. Admission will be charged for the concert, which is open to the public.

Roberts and Barrand received their Ph.D.s in psychology from Cornell in 1972. Both are originally Britons, and their music is largely British. They perform ballads, sea chanteys, and bawdy songs in unaccompanied duets. They also play banjo, guitar, spoons, kazoo and concertina.

Football Tickets Reduced

Reserved seat football tickets for students, faculty and staff have been reduced from \$6 to \$4 this year if they are purchased not later than the Friday before each home game, according to an announcement by the Athletic Department. All tickets on Saturday will be priced at \$6, the same as for the general public.

Alternative Agricultures Talk

The Alternative Agricultures Bag Lunch Seminar Series will feature a presentation on "Agriculture in China Today" at 12:15 p.m. Friday, Sept. 15 in Warren 32. The program, which includes slides, will be given by Jan and Cornelia Flora, associate professors of sociology at Kansas State University. They earned their Ph.D.s at Cornell in Rural Sociology.

The program is sponsored by the Center for Religion, Ethics and Social Policy and the Department of Rural Sociology.

The Floras also will give a talk on "Agriculture in Pre- and Post-Mao China" at 3:30 p.m. the same day in Warren 32.

Owls Schedule First Meeting

O.W.L.S. (Older, Wiser, Learners) will hold its first meeting of the school year from 7 to 9 p.m. Wednesday, Sept. 20, in the Conference Room at 103 Barnes Hall. O.W.L.S. are a group of older students and people interested in returning to school, who meet each month to share concerns and to get to know each other. For more information call Vivian Geller at 256-4221.

Marathon Program Begins

The Marathon Program will present the first in a series of lectures at 4:15 p.m. Friday, Sept. 15 in Barton G-1.

James M. Hartshorne, founder of the Finger Lakes Runners' Club will speak on "Aerobics and Health" and will show the movie, "Marathon," about try-outs for the 1976 Olympic team. All are invited.

Campus Club Plans Reception

Mrs. Jack E. Oliver, newly elected president of the Cornell University Campus Club, will welcome women employees (including retirees), wives of Cornell employees (and retirees wives), women graduate students and wives of graduate students who would like to join the club at a Fall Reception from 1 to 3 p.m. Thursday, Sept. 21.

In addition to the regular activities, a newly organized activity group on Basic Household Repairs is planned.

The Campus Club Reception is held each year at the North Campus Union Lounge, and parking is available in the "A" Parking Lot just off Jessup Road. Baby sitting will be available free of charge by reservation only. Please call 257-3401 or 257-2871 to make arrangements for baby sitting.

Future programs planned for Campus Club include the Fine Arts Series at the Johnson Museum on four Thursdays in February, a lecture on local history by Carol Kammen in April, and the annual meeting and luncheon in May.

Biology Honors Applications Due

Applications for the Biology Honors Program are due in 118 Stimson at noon, Sept. 19.

ILR Publication Seeks Material

"The Industrial and Labor Relations Forum," which publishes undergraduate and graduate student papers, is seeking material for this year's issues. Professors may submit term papers or the names of student authors to Carolyn Albro in David Lipsky's office (256-3230) or leave a note in Jedd Mendelson's mailbox on the second floor in Ives Hall.

Hosts for Gymnasts Sought

Host families are being sought for members of the Danish gymnastics team during its visit here Oct. 1 through Oct. 4.

Faculty and staff interested in housing and feeding at least two members of the team should call Phil Langan, director of public affairs for physical education and athletics at 256-3752, as soon as possible. The team will perform at 7:30 p.m. Sunday, Oct. 1, at Barton Hall and will give a clinic at 7:30 p.m. Monday, Oct. 2, at Helen Newman Hall.

International Friendship Dinner

The International Friendship Dinner is a rare chance to taste food from 20 different countries. The dinner will be at Anabel Taylor, One World Room at 6:30 p.m. on Saturday, Sept. 23. Admission is limited in number and tickets are available at the International Student Office for \$2. All are welcome.

Orientation Group Reception

All Fall 1978 O.C.s are invited to attend a reception in their honor hosted by President Rhodes. The event will take place from 4:30 to 5:30 p.m. Friday, Sept. 15, in the Memorial Room of Willard Straight Hall.

Special Seminars

State University, 2:30 p.m., Friday, Sept. 15, Warren 32.

Arts and Sciences

ORGANIC-INORGANIC CHEMISTRY: "New Applications of the Diels-Alder Reaction: The Pentalenolactone Connection," S. Danishefsky, University of Pittsburgh, 8:15 p.m., Monday, Sept. 18, Baker Lab 119.

PSYCHOLOGY: "Simulation Models of Primate Life-Histories," Glen Hausfater, 4 p.m., Friday, Sept. 15, Uris Hall 202.

Biological Sciences

BIOCHEMISTRY, MOLECULAR AND CELL BIOLOGY: "Isolation of the Galactokinase Gene from *S. Cerevisiae*," Mark A. Schell, 12:20 p.m., Monday, Sept. 18, Wing Hall Library 403.

NEUROBIOLOGY AND BEHAVIOR: "Neuronal Control of Escape Behavior in the Cockroach," Jeffrey Camhi, 12:30 p.m., Thursday, Sept. 14, Langmuir Penthouse.

NEUROBIOLOGY AND BEHAVIOR: "Morphological and Physiological Studies of Neurons within the Auditory Pathway of Crickets," Franz Huber, Max-Planck Institute for Behavioral Physiology, Germany, 4:30 p.m., Monday, Sept. 18, Statler Oscar of the Waldorf Room.

PHYSIOLOGY: "Studies on the Plant Cuticle — Effect of Environment on Ultrastructure and Permeability," David Reed, 11:15 a.m., Friday, Sept. 15, Plant Science 404.

Centers and Programs

COMPUTER SERVICES: "Introduction to Services," staff members, 3:30 p.m., Friday, Sept. 15, Uris Hall G-8, Engineering.

CHEMICAL ENGINEERING: "Convective Diffusion in Colloid Separations," R. Shankar Subramanian, Clarkson College, 4:15

p.m., Monday, Sept. 18, Olin Hall 145.

MATERIALS SCIENCE AND ENGINEERING: "Single-Crystal Sputtering Theory," Mark Robinson, Oak Ridge National Laboratory, 4:30 p.m., Thursday, Sept. 14, Bard 140.

MATERIALS SCIENCE AND ENGINEERING AND PHYSICS: "Radiation Damage in Solids," M. Ruhle, Max-Planck-Institut, Germany, 4:30 p.m., Monday, Sept. 18, Bard 140.

MECHANICAL AND AEROSPACE ENGINEERING: "Research on Noise Generated in Impact Forming Machines," S.A. Tobias, University of Birmingham, 4:30 p.m., Tuesday, Sept. 19, Grumman 282.

PLASMA STUDIES: "A Method for Determining a Stochastic Transition," J. Greene, Princeton, 4:30 p.m., Friday, Sept. 15, Grumman 282.

PLASMA STUDIES: "Plasma Heating by a Relativistic Electron Beam," M. Greenspan, 4:30 p.m., Wednesday, Sept. 20, Grumman 282.

THEORETICAL AND APPLIED MECHANICS: "Generic Bifurcations in Variational Problems," D. Chillingworth, 4:30 p.m. Wednesday, Sept. 20, Thurston 205.

Human Ecology

NUTRITIONAL SCIENCES: "Nutritional Relations between Parasitic Worms and Laboratory Rats," D.W.T. Crompton, University of Cambridge, England, 4:30 p.m., Monday, Sept. 18, Savage 100.

Veterinary Medicine

MICROBIOLOGY: "Equine Rhinovirus Infection: An Overview of the Epidemiology and Experimental Infection," Dorothy F. Holmes, 12:15 p.m., Monday, Sept. 18, Vet Research Tower G-3.

Items to be listed in the Special Seminars column must arrive in the Chronicle Office, 110 Day Hall, by noon of the Friday before publication.

Agriculture and Life Sciences

AGRICULTURE ENGINEERING AND ENVIRONMENTAL STUDIES: "Salinity Management Models for Irrigation Planning," Muhamad Z. Bardaie, 3:30 p.m., Friday, Sept. 15, Riley-Robb 105.

AGRICULTURAL ENGINEERING: "Congeneration Systems — Some Engineering and Economics Restraints," David M. Stipanuk, 12:20 p.m., Friday, Sept. 15, Riley-Robb 400.

MICROBIOLOGY: "Gene Transfer in *Streptococcus faecalis*: Conjugation, Mating Aggregates and Sex Pheromones," Gary Dunny, 4:30 p.m., Thursday, Sept. 14, Stocking 124.

NATURAL RESOURCES: "Biomass Energy Conversion and Environmental Implications," David Pimental, 4 p.m., Thursday, Sept. 14, Fernow 304.

POMOLOGY: "Trickle Irrigation Effects on Grapevine Growth and Productivity," R.A. Cline, Horticultural Research Institute of Ontario, 11:15 a.m., Monday, Sept. 18, Plant Science 114.

RURAL SOCIOLOGY: "The Organization of Agriculture in China: Pre-Mao and Post-Mao," Cornelia and Jan Flora, Kansas

Graduate Bulletin

Graduate students who have Cornell administered awards which provide tuition please note: although your tuition charge appeared on your Aug. 10 bill, credits for tuition aid will not appear until your Sept. 10 or Oct. 10 billing statement.

Cornell graduate fellowships, traineeships, assistantships and scholarships do not cover Student Health Insurance charges. Students are personally responsible for these expenses.

Graduate students who are New York State residents are reminded to apply for a TAP award, even if tuition is not paid by a fellowship or assistantship. Contact the Bursar's Office, 260 Day Hall for information and application forms.

Current graduate students interested in applying for a Danforth Foundation Fellowship are encouraged to attend an informational meeting at 9 a.m. Wednesday, September 27 with William Kennedy, Dandorth adviser, 244 Goldwin Smith. Cornell may submit only 12 graduate nominees for this award. Application materials must be obtained by Oct. 16.

Application materials for the Fulbright-Hays Doctoral Dissertation Research Abroad Training Grant Program will be available beginning Monday, Sept. 18. Students applying for research in East Asia, East Europe and Russia, Latin America, South Asia and Southeast Asia should request forms and deadline information from the appropriate Foreign Area Program in Uris Hall. Applicants to other non-Western European countries should request materials from Jeanne Vernon, Fulbright Program Adviser, 116 Sage Graduate Center, no later than Oct. 16.

For information and applications for the Fulbright-Hays Grants (administered by IIE), contact Jeanne Vernon, Campus Fulbright Adviser, 116 Sage Graduate Center. Applicants are reminded that their application must be typed and all transcripts and references must be returned to the Fellowship Office, 116 Sage Graduate Center. Completed applications must be submitted no later than Oct. 6.

Now is the time to investigate opportunities for financial support for 1979-80. Many application deadlines occur early in the fall semester. Additional information about the awards whose deadlines are listed below may be obtained from either the Career Center, 14 East Ave., or from the Graduate Fellowship Office, 116 Sage Graduate Center. Your surest

chance of having support next year will be your own outside award.

Sept. 15: Frank M. Chapman Memorial Grants (for Oct. 1970 meeting of committee).

Sept. 30: Organization of American States PRA-Fellowships (for November 1978 meeting of Advisory Board).

Oct. 1: U.S. Dept. of Justice Graduate Research Fellowship Program.

Oct. 16: Danforth Foundation Fellowships (contact William Kennedy, 244 Goldwin Smith).

Oct. 16: Fulbright-Hays Doctoral Dissertation Aboard Training Grants (to request application materials from Fellowship Office).

Oct. 31: Rhodes Scholarships (contact Paul Rahe, 327 McGraw).

Nov. 1: Alliance Francaise de New York Scholarship Program.

Nov. 1: Jessie Smith Noyes Fellowships for Thesis Research (for February 1979 appointment.)

Nov. 1: Sigma Grants in Aid in Research (for December 1978 meeting).

Nov. 1: Society for the Psychological Study of Social Issues (SPSSI).

Nov. 15: American Research Institute in Turkey Research Fellowships.

All completed optical mark course registration sheets should be turned in to Sage Graduate Center by Friday, Sept. 22.

Graduates students are reminded that in nominating their special committees, only members of the Graduate Faculty of the appropriate field may represent major or minor subjects.

All doctoral program students who have completed six residence units prior to the beginning of this semester and have not attempted the Admission to Candidacy Examination must either schedule the examination by mid-September or request permission from the Graduate School for an extension (by recommendation of special committee).

Graduate students whose employment is other than a teaching or research assistantship and is in excess of 10 hours per week (and is not contributory toward degree) or 20 hours per week (and is contributory) may be eligible for proration of

tuition. Applications are available at the Information Desk, Sage Graduate Center.

Doctoral candidates who have completed four years of residence, are not receiving money from Cornell, and who need only library facilities (use of carrel included) to complete their theses may be eligible for a special tuition rate of \$400. Check with the Graduate School for details and application forms.

Career Center Calendar

Sept. 14 — Extracurricular Activities for Health Careers Students, 1:10 p.m. Founders' Room, Anabel Taylor.

Sept. 14 — Placement Workshop for Ag and Life Sciences seniors who will be graduating in December, 4 p.m. 16 Roberts Hall.

Sept. 19 — Information Meeting on Prestigious Awards. Campus representatives and advisors will discuss Rhodes, Churchill, DAAD, Fulbright-Hays, Luce, Danforth and Marshall awards, 3:30 p.m. Ives 117.

Sept. 20 — Pre-law meeting. Mainly for ILR students, but others welcome as well, 2:30 p.m. Ives 215.

Sept. 20 — Admission to New York State College of Veterinary Medicine will be discussed by Robert Brown, director of Admissions at NYSCVM, 7:30 p.m. James Law Auditorium, Schurman Hall.

Sept. 20 — Preparing for the GRE, LSAT or GMAT. A workshop designed primarily for those who anticipate difficulty with standardized exams, 4-6 p.m. Goldwin Smith Lecture Room A.

Sept. 21 — Fellowship Clinic. Resources for grad study financial aid will be discussed, 10:30 p.m., Career Center. Sign up in advance (256-5221).

Sept. 22 — Resume Critique. Come with a typed draft resume, 12:20 p.m. Career Center. Sign up in advance: (256-5221).

Calendar

September 14 — 24

All items for the Chronicle Calendar must be submitted by mail or in person to Fran Apgar, Office of Central Reservations, 32 Willard Straight Hall, at least 7 (seven) days prior to publication of the Chronicle.

* Admission charged

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

Thursday, September 14

8 a.m.-5 p.m. Cornell Officer Education Day (Defense Day). Barton.

8 a.m.-4:30 p.m. Late Registration. Day 222.

9-10:30 a.m. The Division of Campus Life monthly seminar: "Review of Orientation and Registration." Don Burgett, Agriculture and Life Sciences; Tom Fiutak, Office of Dean of Students; Elaine Lefferts, Arts and Sciences, Eleanor Rice, University Registrar. Conversation with President Rhodes. Straight Elmhurst Room.

9:30-11:30 a.m. Play group available for married students' children under three years of age. Call Margaret Weiss for more information at 257-6867. Hasbrouck Apartments Brown Center.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

12:15 p.m. Women's Studies Graduate/Faculty Colloquium Series: "Household Production and the New Home Economics." Jennifer Gerner, Consumer Economics and Housing. Uris Hall 494.

1:25 p.m. Health Careers brown bag session: "Extracurricular Activities for Health Career Students." Anabel Taylor Founders Room.

4 p.m. Natural Resources Seminar: "Biomass Energy Conversion and Environmental Implications." David Pimentel, Entomology, Cornell. Fernow 304.

4 p.m. Organizational meeting for new and returning members. Brown belt test sponsored by Cornell Shorinji Kempo Club. Straight Memorial Room.

4:45 p.m. Campus Council meeting. Clark 701.

7 p.m. The Christian Science Organization welcomes students, staff and campus visitors to the weekly readings and testimonies meeting. Anabel Taylor Founders Room.

7:30 p.m. Natural History Society Lecture: "History of Early Cornell Naturalists"; "Teeth of Fishes, Lungs of Birds"; and "The One-Eyed Sheep." H.E. Evans. Stimpson G-1.

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

7:30 p.m. Cornell Bible Research Group slide-illustrated lecture: "Cosmology and the Existence of God." Noyes Center 304.

8 p.m. *Cornell Cinema and CUSLAR present "It's Raining in Santiago." Rated R. Uris Hall Auditorium.

Friday, September 15

8 a.m.-4:30 p.m. Late Registration. Day 222.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

12:15 p.m. Women's Studies Friday Seminar: "Sexism in Communist Politics." Barbara Jancar, Political Science, Brockport. I&LR Conference Center 105.

1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwards Room.

4:30 p.m. Public lecture: "The Concept of Percolation: Alloys, Gels, Spreading Diseases, Hydrology and the Entanglement of Hair." Pierre-Gilles de Gennes, College de France and A.D. White Professor-at-Large. Goldwin Smith Kaufmann Auditorium.

6:30 p.m. Shabbat Services (Conservative). Anabel Taylor Founders Room.

6:30 p.m. Shabbat Services (Reform). Anabel Taylor Chapel.

7:30 p.m. Shabbat Services (Orthodox). Young Israel.

7:30 p.m. Pentangle II Free Film Series presents "Vive le Tour" and "Zazie in the Metro." Uris Hall Auditorium.

7:30 p.m. *Cornell Varsity Soccer-San Jose State exhibition game. Schoellkopf.

7:30 p.m. Cornell Christian Fellowship meeting for prayer, singing and teaching. All welcome. Morrill 106.

8 p.m. *Cornell Cinema presents "Dr. No" and "You Only Live Twice." Statler Auditorium.

8 p.m. Classics Department presents and informal reading of Aristophanes' "Clouds." Free and open to the public. Goldwin Smith Temple of Zeus.

8:30 p.m. *Cornell Folk Song Club presents John Roberts and Tony Barrand in concert. Straight Memorial Room.

9 p.m.-1 a.m. Lutheran Church Coffeehouse "The Unmuzzled Ox." Enter through rear door at 111 Oak Avenue.

9:30 p.m. *Cornell Cinema presents "Padre Padrone." Uris Hall Auditorium.

11:45 p.m. *Cornell Cinema presents "Dark Star." Rated G. Uris Hall Auditorium.

Saturday, September 16

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

10 a.m. Shabbat Services (Conservative) Anabel Taylor Founders Room.

4:30 p.m. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

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

7 & 9:30 p.m. *Cornell Cinema presents "Padre Padrone." Uris Hall Auditorium.

7:30 p.m. *Cornell India Association presents "Priyatama." Goldwin Smith "D."

8 p.m. *Cornell Cinema presents "Dr. No" and "You Only Live Twice." Statler Auditorium.

8 p.m. *University Unions Program Board presents "Sound and Silence" with Paul Winter Consort and Keith Berger. Reserved seating only. Tickets on sale at Straight Ticket Office. Bailey.

9 p.m.-1 a.m. Lutheran Church Coffeehouse "The Unmuzzled Ox." Enter through rear door at 111 Oak Avenue.

9 p.m. *B'nai B'rith Hillel Foundation presents an Israeli Cafe with Kol B'Seder Singers. Straight Memorial Room.

11:45 p.m. *Cornell Cinema presents "Dark Star." Uris Hall Auditorium.

Sunday, September 17

9:30, 11 a.m. & 5 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

9:30 a.m. Episcopal Eucharist Worship Service. Coffee hour following service in Founders Room. Anabel Taylor Chapel.

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

10:45 a.m. Lutheran Church Worship Service. Nursery care provided. Church school prior to service at 9:30 a.m. Coffee hour following service. 109 Oak Avenue.

11 a.p. Ithaca Society of Friends (Quakers). Meeting for worship. Anabel Taylor Forum.

11 a.m.-2 p.m. ROTC Tri-Service Brigade Fall Field Day. Upper Alumni Field (Barton in case of rain).

11 a.m. Sage Chapel Convocation: L. Pearce Williams, History, Cornell.

11 a.m.-2 p.m. ROTC Tri-Service Brigade Fall Field Day. Upper Alumni Field (Barton in case of rain).

11 a.m. B'nai B'rith Hillel Foundation Graduate student brunch. Sage Lounge.

11:15 a.m. Protestant Church at Cornell. All welcome. Anabel Taylor Chapel.

8 p.m. *Cornell Cinema presents "Hester Street." Uris Hall Auditorium.

Monday, September 18

8 a.m.-4:30 p.m. Late Registration. Day 222.

8 a.m.-5 p.m. Air Force Birthday. Barton.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

12:20 p.m. Agricultural Engineering Seminar: "Acquisition and Processing Data with a Small Digital Computer." Gary Eichhorn, Digital Equipment Corporation, Syracuse. Riley-Robb 400.

1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwar.

7:30 p.m. America and World Community: "Nature and Man's Treatment of the Environment of Earth." Richard Baer, Natural Resources. Anabel Taylor One World Room.

7:30 p.m. "English as a Second Language" for married students. Call Judith Ashcraft at 256-6671 for information. Hasbrouck Apartments Brown Center.

7:30 p.m. Yiddish Conversation. Anabel Taylor 314.

7:30 p.m. Jewish Choral Group. Anabel Taylor Founders Room.

9 p.m. *Cornell Cinema presents "Juliet of the Spirits." Film Club members only. Uris Hall Auditorium.

Tuesday, September 19

8 a.m.-4:30 p.m. Late Registration. Day 222.

10:30 a.m. Appointments with Israel Aliyah, desk representative: jobs, study, etc. Sponsored by Cornell Ithaca Friends of Israel. Call 256-4227, Hillel Office. Anabel Taylor G-34.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

12:20 p.m. Cornell Women's Caucus. All welcome. Ives 118.

4 p.m. *Cornell JV Soccer-Colgate. Schoellkopf.

4:30 p.m. Geological Sciences Seminar: "Implications of O 18 Flux into the Oceanic Crust: On the Chemical and Isotopic History of the Oceans, Crust and Mantle." James Lawrence, Lamont-Doherty Geological Observatory. Thurston 205.

7-10 p.m. Cornell Ultimate Frisbee Team. All interested please attend. Barton.

7:30 p.m. Folk dancing for couples. Singles, beginners, all ages welcome. Martha Van Rensselear Auditorium.

7:30 p.m. *Cornell Varsity Soccer-Colgate. Schoellkopf.

7:30 p.m. Cornell Outing Club Fall introductory meeting. Movie to be shown following the meeting. Straight Memorial Room.

7:30 p.m. Transcendental Meditation and TM-Sidhi programs: "Developing Higher States of Consciousness through Super-normal Abilities." Lecture and discussion of benefits and research on TM programs, including photographs and research on levitation. Free and open to all. Sponsored by Cornell TM Club. Ives 116.

7:30 p.m. Jewish Holidays Workshop. Anabel Taylor Forum.

8 p.m. *Cornell Cinema presents "Diabolique." Uris Hall Auditorium.

8:15 p.m. Soviet Studies Committee and Dobro Slovo present an evening of Russian piano music with Edward Lee, pianist. Barnes Auditorium.

Wednesday, September 20

8 a.m.-4:30 p.m. Late Registration. Day 222.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

4 p.m. Cornell Women's Field Hockey-SUC Brockport. Jessup Field.

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

4:30 p.m. Cornell University as an Employer meeting. All welcome. Ives 214.

7 p.m. Hebrew Conversation. Anabel Taylor 314.

7:30 p.m. America and World Community: "Nature and

Man's Treatment of the Environment of Earth." Richard Baer, Natural Resources. Anabel Taylor One World Room.

8 p.m. *Cornell Cinema presents "Roberta." Astaires Rogers Series. Uris Hall Auditorium.

8 p.m. Sierra Club Lecture: "Autumn In the Finger Lakes: Where to Go, What to See." Richard B. Fischer, Environmental Education. Rides at Straight at 7:30 p.m. Lyman K. Stuart Observatory, 159 Sapsucker Woods Road.

8:15 p.m. Department of Music presents "Friends of Music Concert." Andrew D. White House.

Thursday, September 21

8 a.m.-4:30 p.m. Late Registration. Day 222.

9:30-11:30 a.m. Play group available for married students' children under three years of age. Call Margaret Weiss for more information at 257-6867. Hasbrouck Apartments Brown Center.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

12:15 p.m. Women's Studies Graduate/Faculty Colloquium Series: "Problems in the Study of Women's Work." Jennie T. Farley, Industrial and Labor Relations and Women's Studies. Uris Hall 494.

4:30 p.m. University Lecture, in cooperation with the Department of Sociology and the Society for the Humanities: "The Future World Disorders." Daniel Bell, Sociology, Harvard University. Goldwin Smith Kaufmann Auditorium.

7 p.m. The Christian Science Organization welcomes students, staff and campus visitors to the weekly readings and testimonies meeting. Anabel Taylor Founders Room.

7-10 p.m. Cornell Ultimate Frisbee Team meeting. All interested please attend. Barton.

7:30-9 p.m. Married Students Lecture: "Winterize Your Apartment." Suggestions from the New York State Electric and Gas Company with discussion. Hasbrouck Apartments Brown Center.

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

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

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Friday, September 22

8 a.m.-4:30 p.m. Late Registration. Absolute deadline. Day 222.

9:30 a.m. Society for the Humanities Colloquium: "Sociology Between History and Economics." Daniel Bell, Sociology, Harvard University. A.D. White House 201.

12 noon. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

12:15 p.m. Women's Studies Friday Seminar: "Women and Cooperative Extension." Eunice P. Reed, Cooperative Extension, Cornell. I&LR Conference Center 105.

1 p.m. SALAT-AL-JUMA (Friday prayer for Muslims). Anabel Taylor Edwards Room.

4 p.m. Public lecture: "Hermann Hesse's Endgame." J.P. Stern, German, University College, London and A.D. White Professor-at-Large. Goldwin Smith A.

4 p.m. Cornell Women's Tennis-St. Lawrence. Helen Newman Courts.

4 p.m. Cornell Women's Field Hockey-St. Lawrence. Jessup Field.

4:15 p.m. Cornell JV Cross Country-Colgate. Cornell Golf Course.

5:15 p.m. Cornell Men's Varsity Cross Country-Colgate. Cornell Golf Course.

6:30 p.m. Shabbat Services (Conservative). Anabel Taylor Founders Room.

6:30 p.m. Shabbat Services (Reform). Anabel Taylor Chapel.

7 & 9:15 p.m. *Cornell Cinema presents "Pretty Baby." Statler Auditorium.

7:30 p.m. Shabbat Services (Orthodox). Young Israel.

7:30 p.m. *Cornell Varsity Soccer-Princeton. Schoellkopf.

7:30 p.m. Cornell Christian Fellowship meeting for prayer, singing and teaching. All welcome. Morrill 106.

7:30 p.m. Pentangle II Free Film Series: "Le Plaisir" (Ophuls, 1952, France); short: "A Parable of Two" (S. Ray, 1960's, India). Uris Hall Auditorium.

8 p.m. University Unions Program Board presents a lecture by Edward Albee. Bailey Hall.

8:15 p.m. Department of Music presents Fortepiano Recital, Malcolm Bilson. Barnes Auditorium.

9 p.m.-1 a.m. Lutheran Church Coffeehouse "The Unmuzzled Ox." Enter through rear door at 111 Oak Avenue.

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

Saturday, September 23

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

10 a.m. Shabbat Services (Conservative). Anabel Taylor Founders Room.

9:30 a.m. Cornell Women's Field Hockey-Princeton University. Jessup Field.

10 a.m. Shabbat Services (Conservative). Anabel Taylor Founders Room.

1:30 p.m. *Cornell Varsity Football-Princeton. Schoellkopf.

4:30 p.m. Catholic Sacrament of Reconciliation. Anabel Taylor G-24.

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

7 & 9:15 p.m. *Cornell Cinema presents "Pretty Baby." Statler Auditorium.

7 & 10:30 p.m. *Cornell Cinema presents "Woodstock." Uris Hall Auditorium.

9 p.m. 1 1 a.m. Lutheran Church Coffeehouse "The Unmuzzled Ox." Enter through rear door at 111 Oak Avenue.

12 midnight. Slichot Services. Anabel Taylor Founders Room.

Sunday, September 24

9:30, 11 a.m. & 5 p.m. Catholic Mass. All welcome. Anabel Taylor Auditorium.

9:30 a.m. Episcopal Eucharist Worship Service. Faculty, staff and families welcome. Church school and nursery care. Coffee hour following service in Founders Room. Anabel Taylor Chapel.

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

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