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Recombinant DNA Advance Reported BTI, Biological Science Researchers Involved

In recombinant DNA experiments that may someday lead to the development of plants capable of providing their own nitrogen supply, molecular biologists at the Boyce Thompson Institute for Plant Research here have succeeded in transferring genetic information from nitrogen-fixing bacteria to a higher form of life — yeast cells. The achievement is the result of

one of the first major pieces of collaborative research involving the university and Boyce Thompson Institute, which moved to the Ithaca campus in 1978.

Bacterial gene transfer into yeast Cornell Division of Biological Sciwill serve as a model system, and much more research will be needed before green plants can be "taught" the nitrogen-fixing capabilities that bacteria already possess, the experimenters acknowledge. But the yeast experiments show that a large cluster of genes with a known function can be moved into more complex organisms and remain stable during many generations of cell division

Participating in the research are Aladar A. Szalay, a molecular biologist who is a member of the

ences and director of the Boyce Thompson Institute's Laboratory for Genetics of Nitrogen Fixation; Ada Zamir, a molecular biologist who was on sabbatic leave to Szalay's laboratory and is currently chairperson of the Biochemistry Department of the Weizmann Institute of Science, Rehovot, Israel; and Claude V. Maina, a second year graduate student specializing in molecular biology. Yeast strains and transformation technology for the collaborative project, which began in 1979, were provided by a

fourth participant, Gerald R. Fink, professor of genetics in Cornell's Section of Biochemistry, Molecular and Cell Biology.

To find a more economical and efficient means of obtaining nitrogen nutrients for crop plants has been one of agricultural science's greatest challenges. Virtually every form of life, from tiny microorganisms to green plants to animals and humans, requires reduced nitrogen for proteins and nucleic acids. Although nitrogen gas is the most abundant material in the Earth's atmosphere, it is useful to biological systems only if "fixed," that is reduced and converted to ammonia.

So far as is known, nitrogen fixa-tion can be accomplished in only two ways — biologically, with cer-tain specialized microorganisms (free-living bacteria in the soil, blue-green algae in water and rhizobia bacteria in the root nodules of leguminous plants such as clover and soybeans), or chemically, through an industrial method known as the Haber-Bosch process. Both means are costly in terms of

energy. The biological process requires considerable amounts of ATP, the substance produced from sugars as a product of the photosynthetic process. And the intense heat and pressure, needed by the chemical process to manufacture nitrogen fertilizer, burn increasing-

ly scarce and expensive fossil fuels. Cost savings to agricultural production would be immense if crop

plants — corn for example, or wheat or rice — could obtain and fix nitrogen directly from the air, thus reducing the economic dependency on fossil fuels.

"Scientists began," Szalay re-calls, "by trying to understand the complex process of K. pneumoniae, a free-living, nitrogen-fixing bacterium. There are 17 genes, adjacent to each other, which perform no other function than fixation. It was possible for us to use enzymes like scissors to cut a segment of the K. pneumoniae chromosome, intact as a large piece, and to excise the 17 genes that carry all the necessary genetic information.'

The large pieces were then inserted, in the test tube, into plasmids to be transferred to E. coli (Plasmids are the small, circular DNA units which are capable of self-reproduction independent of the cell's chronomosomal DNA. E. coli is a type of bacteria, found in the human intestinal tract, that is widely used in genetic engineering work because the microorganisms can function as tiny factories to produce multiple copies of genetic material.) Once large quantities of the nitrogen-fixation (or nif) genes were produced, it became feasible

to transform yeast cells with "na-ked" or purified DNA.

While genetic engineers normally attempt to transfer only one or two genes' worth of genetic material, the researchers in this case were dealing with approximately 40

Continued on Page 3

NLRB Election to Be Tuesday

Service, Maintenance Employees Eligible

Some 947 service and maintenance employees of the university are eligible to vote Tuesday, Feb. 24, in a National Labor Relations Board election to determine if they wish to be represented by the United Auto Workers union.

Hours for balloting will be 6 a.m. to 6 p.m. that day on the ground floor of Barton Hall on the west side, near the offices of the Depart-

ment of Public Safety.
Representatives of the NLRB's regional office in Buffalo will conduct the election. Service and maintenance employees who have been on the Cornell payroll from Nov. 12,

1980 through election day are eligible to vote, and have been notified.

The university will run express buses from various places on cam-pus to Barton Hall during the voting hours. Maps and schedules will be

distributed to eligible employees. Also, some parking will be available near Barton for persons using their own vehicles

For more information call

Geneva Votes No Representation

Employees at the university's Agricultural Experiment Station last Thursday voted not to be represented by a union in a National Labor Relations Board election.

The 22-19 decision was the third time within eight months that the 41 employees voted not to be represented by the United Food and Commercial Workers.

Study, Exam Periods Asked Council Seeks Reinstatement

The Campus Council, at its meeting last week, "ambitiously" passed a resolution which called for the reinstitution this spring of separate study and examination periods, shortening next year's intersession by one week, applying the extra week to a five-day senior week and asking that the 1982 spring break coincide as closely as possible with the Easter and Passover holidays.

The recommendations were sent to Provost W. Keith Kennedy, who will present them to the Faculty Council of Representatives in

In accordance with the council's

recommendation for separate study and examination periods this spring, Kennedy has announced that the study period will be May 17-20 and that the examination period will be May 21-27, inclusive.

A Campus Council questionnaire '83 proposed tha

on the calendar, which was recently distributed, showed that of the 533 respondents, 41 percent preferred the four-day study period; 73 percent felt that the recent intersession was too long and 44 percent felt it should be shortened by one week.

A proposal to extend the deadline to April 15 for the completion of the

work by the Smoking Committee was passed. It was also announced that Eleanor Rice, university registrar, will serve as chairperson of

In other business, Alan Hoffman '83 proposed that the council "strongly advise against" the use of social security numbers as a means of student identification. John Mennell, chairperson of the council, said that the subject would be taken up in the near future.

The next meeting of the Campus Council will be at 4:45 p.m. Thurs-day, Feb. 26, in 251 Malott Hall.



Judy Borsher, massage therapist, will be teaching one-day massage workshops on March 8 and April 11 as part of the Experimental College Program. Registration is Feb. 24. For further information call 256-7131.

Comment

Student Info System: Phase 2 Study Team Works on Financial Aid

The second phase of a project expected to bring a new student information system to Cornell has been announced by Vice Provost

Larry I. Palmer.
A "study team" of seven university faculty and staff and three consultants from International Business Machines Corp. has started to review and develop "a secure financial aid system" that is compatible with other Cornell offices and systems, Palmer said.

This phase of the project will conclude in mid-April with a report of recommendations to improve the quality of student financial aid services at Cornell.

Out of the project is expected to come a new student information system that eliminates existing problems and provides better services to students, faculty and administrative staff. It will probably be several years before a complete new student information system is in full operation, Palmer said.

The first phase of the project took

place a year ago when the same "application transfer team" approach was used to study the functions of the various registrars at Cornell. In the future, the admissions offices, the bursar's office and the Graduate School will be reviewed.

The "application transfer team" approach "utilizes a methodology which allows Cornell rather than a vendor to define needs and make recommendations to enhance systems," according to Palmer

Palmer, who is responsible for reviewing the study's progress and recommendations, said "much has taken place" since the registrar's study began last year:

general design of the registrar's

system was completed;
—university and Board of
Trustees' approval was given;
—a vice provost for computing,

Kenneth King, was hired;

new hardware and software has

-work on the detail design for the

registrar's system has begun. University members of the financial study team are: William J. Bushaw, director of financial aid; Anthony Lolli, director of student information systems and research; David Macklin, research associate with the Learning Skills Center; Jean Merwin, university bursar; Donald S. Postel, director of financial aid at the New York State College of Veterinary Medicine; James Quiggle, senior systems analyst in the Office of Computer Services, and John Wootton, associate dean of the Graduate School. Bushaw is the team leader.

There has been a need for years for an updating and modernization of Cornell's student records system, according to Palmer. "The present system continues to create numerous problems for our students, faculty, and staff members who must use or maintain student records,'

(Editor's Note: Although veteran

Cornell?

Founder's Day

Cornell watchers can think of few observances of the day on campus in recent years, Prof. Emeritus Blanchard Rideout points out that various alumni clubs around the

Whatever happened to the formal observance of the birthday of Ezra

In my day Jan. 11 was a day for

William J. Waters '27 428 Mitchell St.

Ithaca, N.Y.

remembering — and for rejoicing. It was called Founder's Day.

country continue to have Founder's Day lunches and dinners. The last major campus event chronicled in the Cornell Alumni News was on Jan. 11, 1957, which was the 150th anniversary of Ezra Cornell's birth. Rideout believes the occasions of celebration began to wane with the passing of Mr. Cornell's immediate family from the local scene. John Marcham, editor of the Alumni News, also surmises that in recent years it might have had something to do with the stretched-out intersession, when students are away from campus on Jan. 11. That date next year (1982) will be the 175th anniversary of Mr. Cornell's birth. Perhaps some campus organization will plan something then?

Two Fulbright Award Winners Named

Tom E. Davis, professor of economics, and David L. Ratner, professor of law, have received Fulbright Awards under the Mutual Educational and Cultural Exchange

Program.
Davis will lecture and conduct research on political economy and international economics at Central University, Caracas, Venezuela,

this month through May.

During the period February
through July, Ratner will lecture
and conduct research on corporate

and securities law at Monash, Clayton, Victoria, Australia.

These awards are among more than 500 Fulbright grants for university teaching and advanced re-search in more than 100 countries for 1981-1982.

More than 2,500 Fulbright applications are screened annually by two peer review committees. The nominated applicants are further reviewed abroad. Chosen scholars are officially selected by the Board of Foreign Scholarships whose members are appointed by the President of the United States.

The purpose of the Fulbright Program, now in its 35th year, is "to enable the government of the United States to increase mutual understanding between the people of the United States and the peoples of other countries."



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The following job openings are new this week. For information on vacant positions listed in previous issues of the Chronicle, contact Personnel Staffing Services, 440 Day Hall. Cornell is an offirmative action employer. affirmative action employer.

Administrative/Professional Director of Admissions, CP7 (Univ Admissions)

Regional Director II, CP6 (Public Affairs Reg. Off., NYC)
Systems Analyst III, CP5 (Computer

Services, APS)
Director of Administrative Opera-

Regional Director I, CP4 (Public Affairs Reg. Off., NYC)
Staff Writer II, CP4 (Veterinary Medi-

cine Administration)
Summer Camp Administrator, CP3
(Phys. Ed. & Athletics)

Residence Hall Director, CP3 (Resi-

Residence Hall Director, CP2 (Residence Life) (5)
Residence Hall Director, CP2 (Residence Life/West Campus)
Research Support Specialist, CP4 (Design & Env. Analysis)
Clerical

ministration)
Secretary, GR20 (Publ Aff. Reg. Off.,

Coral Springs, Fla.)
Office Assistant, GR17 (Support Ser-

vicee)
Keypunch Operator, GR17 (Computer

Services)
Secretary, GR17 (Coop. Ext. Admin.)
Office Assistant, GR17 (Media Services

Library Aide, GR16 (Univ. Libraries, Circ./Olin) Library Aide, GR16 (Univ. Libraries, Catalog/Olin)

Secretary, GR16 (HD&FS) Material Handler, GR19 (Lab of Nuclear Studies)
Program Aide, GR17 (Lower East

Side EFNEP, NYC)
Lab. Attendent, GR15 (Agronomy)

Technical
Technician, GR20 (Physiology)

Temporary
Temp. Res. Hall Dir, CP3 (Residence

Temp. Office Asst., T-1 (Career Cen-

Part-time News Reporter U000 (WHCU)
Office Asst., GR16 (HD&FS, Albany,

Secretary, GR16 (Vet. Microbiology)

Nitrogen Fixation Step Closer

Continued from Page 1 genes' worth of DNA, including the 17 nif genes, or 46,000 base pairs in size. The question arose: Is it possible to integrate and stably maintain such a large piece of bacterial DNA in the chromosome of a higher cell?

Integration into the yeast chromosome can occur by a process known as homologous recombination, based on structural similarities between the incoming DNA and the chromosomal DNA of the recipient. As Szalay explains it, identical pieces of genetic informa-tion must connect 'like pieces of railroad track.' Then, whatever is attached to the homologous piece of DNA will also come into the yeast chromosome. After insertion into the yeast chromosome, the nif plasmid might be expected to be copied, along with the yeast genes, each time the cells divide and repro-

The yeast selected for the experi-

As a result of a change in univer-

sity policy on access to and release

nounced a change in a paragraph of "The University Policy on Access to and Release of Student Records."
The change is effective in the fall

The following sentence has been

whether he or she would like to have copies of the term's grades and transcript sent to his or her parent,

guardian or any other person having

need of the information on a regular

The modification will appear in

the 1981 edition of the "Policy

"At registration each term the student will be asked to indicate

grades each semester.

1981 semester.

basis.

Students Will Decide

ment was a specially-prepared strain containing short segments of bacterial DNA but lacking the ability to make the amino acid, his-

The research team's innovative solution was to offer the recipient yeast cells two separate kinds of DNA molecules at the same time. One of the circular DNA molecules carried the yeast gene to correct the histidine deficiency upon integration. The second type of molecule carried the nitrogen-fixing genes. Both incoming plasmids had in common a stretch of **E. coli** plasmid DNA, which was also in the reci-

pient yeast.
Called co-transformation, the technique was successful. Reporting in December 1980 to the Fourth International Symposium on Nitrogen Fixation in Australia, Szalay said, "Restriction and hybridization analyses showed that two copies of the nif plasmid are integrated in tandem in the recipient

If Parents Get Grades Notebook for Students, Faculty and Staff' published by the Office of the Dean of Students.

of student records, Cornell students "Our purpose in sending grades directly to families is to encourage soon will have the opportunity to decide whether they want their pa-rents to receive copies of their parents to talk to their children about their academic experience at Cornell and college life as a whole," Following the recommendation of the University Committee on Privacy of Student Records, Prov-ost W. Keith Kennedy has an-Kennedy explained.

"We feel the student should be allowed to have the choice of whether the parents receive the grades," he continued. "Communication between the parent and student cannot take place unless it is voluntary on the part of the student.

chromosome by recombination between homologous regions of the

two transforming plasmids."
Further studies showed that the nif genetic information remained stable over 40 generations in the yeast and that when the information was excised from the yeast and put back into E. coli, the bacteria were able to fix nitrogen. These reverse experiments mean that the higher cell does not rearrange even very large stretches of genetic information in its chromosome.

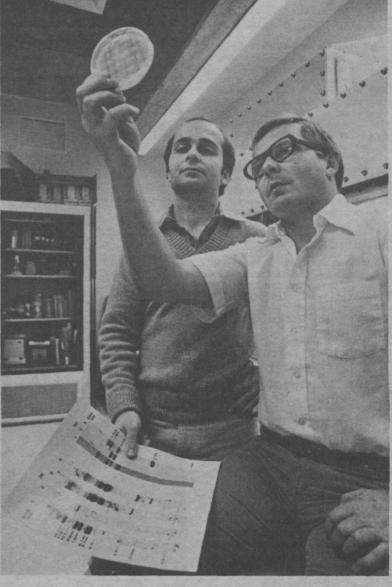
Having shown that genetic material can be inserted and can persist in yeast cells, the researchers are now studying gene expression in the foreign environment. "The yeast containing all the new information doesn't seem to fix nitrogen,'
Maina notes, 'and we're trying to
understand why.' With Zamir's return to Israel, collaborative research continues between the Boyce Thompson laboratory and the Zamir laboratory at the Weizmann Institute in hopes of engineering a yeast cell capable of fixing nitrogen.

The future application of a nitrogen-fixing yeast cell could be as a model to transfer nitrogen-fixing genes to fungi, according to Szalay. The fungi could live in close association with any plant roots and provide the plant with fixed ni-

After those experiments prove successful, the molecular biologist predicts, "we can focus our attention on tranferring nitrogen-fixing genes directly to plants."

"This work would not have been

possible without the availability of the yeast transformation system which was worked out in Professor Fink's laboratory," Szalay adds, "and without the experimental and intellectual interaction of all the participants.'



Claude V. Maina, left, a graduate student in molecular biology. and Aladar A. Szalay, director of the Laboratory for Genetics of Nitrogen Fixation at the Boyce Thompson Institute, examine evidence that genes responsible for nitrogen fixation have been transferred from bacteria to a higher form of life.

Registrar Eleanor Rice Resigns

'Four Years Is About My Limit'

Eleanor Rice, Cornell registrar for the last four years, has an-nounced her resignation effective

"I have never learned to take a life-long view of a job. I've always taken a more immediate view,

said Rice in explaining her decision.

Graduate student composer Gregory S. Woodward rehearses an orchestra composed of local professionals who performed Woodward's "Sculptures I" as part of the Festival of Contemporary Music held here last weekend. The festival was arranged by the Department of Music under the direction of Karel Husa and is supported by a grant from the University Council of the Creative and Performing Arts.

""What can I do to make things better in one year or two?' is the kind of question I've always asked myself. Four years is about my limit."

President Frank Rhodes said, "The Registrar's office has made major improvements in the registration procedure, in the accuracy of its record keeping, and in the helpful and friendly attitude of its staff toward those seeking help. All of us are deeply grateful for Eleanor's leadership in this.'

In a letter to Rice, Provost W. Keith Kennedy said, "Your contributions to Cornell extend well beyond the Registrar's office and Day Hall. You have been a valuable member in both the university and Ithaca communities.

Deborah Spencer, who has worked in the Registrar's office for nine years, the last year and a half as Rice's secretary, said Rice 'comes across as an equal, not a superior. She makes you feel comfortable with her pleasant, cheerful attitude and approach. We're cer-

tainly going to miss her style."

Vice Provost Larry I. Palmer told Rice he is "deeply appreciative" of her leadership "in helping us to move towards a new student in-formation system....We are grateful to you for the impetus that you have provided in this important en-

deavor."
"I feel very pleased about many
things that have happened and about
getting the new student information
system started," Rice said. "I know
"the will be a great improvement but it will be a great improvement, but it's two to five years in the future and I don't have that much time to

Rice became registrar at Cornell in 1977 after three years in a similar position at Hampton Institute, from which she holds her bachelor's and master's degrees. She has an educational specialist degree from George Washington University

Earlier in her career she had been a home economics teacher and adviser with a U.S. Agency for International Development team in Sierra Leone, West Africa; a social worker in Virginia and a teacher at the International School in Bangkok,

Last June, Rice announced that she would sign personally the one free copy of the transcript of grades each of some 3,500 Cornell 1980 graduates received, "because some students asked me; they wanted a personal touch.

"If my signing gives a few seconds of pleasure to others, it's worth it," she explained. "Anytime a student asks me for anything — if it's not illegal or immoral — I'll do it."

Calendar

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

*—Admission charged. All items for publication in the Calen-

-Admission charged.

Announcements

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

Extramural Students Last day to register and add courses - February 20.
Living Learning Center A Residential Program House of the Department of Residence Life, is accepting applications for the 1921 92 year. Applied the for the 1981-82 year. Applications are available at the mailroom in Clara Dickson Hall; Residence Life Offices in North Balch Hall; and any of the Resi-

dential Area Offices. Applications are due back by 3 p.m. Friday, February 20. Academic Survival Workshops Read-ing Skills Workshops begin March 3. Sign up in advance at the Learning Skills Center, 375 Olin Hall or call 256-6310.

Center, 375 Olin Hall or call 256-6310.

Tuesday

Feb. 24, 9 p.m.-midnight Statler Inn
Cocktail Lounge. Kernfeld Kwortet with
Edward Murray; Jazz. Free,
Wednesday

Feb. 25, 4:30 p.m. North Campus
Union 2nd Floor Lounge. Shorinji Kempo, a martial art widely practiced in
Japan, which combines both striking and
escaping and throwing techniques. is escaping and throwing techniques, is holding a special beginners class and demonstration. Call Bob Trach at 272-1329 or 256-3638 for information.

272-1329 or 256-3638 for information.

Experimental College Registration for Bartending Classes only on Monday, Feb. 23, 6-9 p.m. Straight Memorial Room. Registration for all other courses, Tues., Feb. 24, 6-9 p.m., Straight Memorial Room. Registration for all unfilled courses, Wed., Feb. 25, 11 a.m.-4 p.m., Straight Terrace Lounge.

The Cornell Dance Series The Meredith Monk Repertory Company will be in residence at Cornell University, offering workshops and a formal con-

offering workshops and a formal concert. Wed. - Fri., Feb. 25-27.

cert. Wed. - Fri., Feb. 25-27.

Saturday

Feb. 28, 8 p.m.-2 a.m. *Big Red Barn.
The Committee on United States-Latin
American Relations (CUSLAR) is sponsoring a Chilean PENA. The pena will go
from 8 p.m.-2 a.m. There will be two
bands, one Chilean and one Nicaraguan.
Beer, wine and Chilean empanadas
(cheese and meat filled pastries) will be
sold. Admission is \$2.50, to benefit El
Saivador and Nicaragua. Tickets available at the door and at Anabel Taylor
Hall, Cornell.

Colloquia

Thursday
Feb. 19, 4 p.m. McGraw 305. Anthropology Department: "The Identification of Tiahuanaco-Huari Iconography," Anita Cook, Graduate Student,

graphy," Anita Cook, Graduate Student, SUNY/Binghamton.
Feb. 19, 4:30 p.m. Space Sciences 105.
Astronomy and Space Sciences: "The Search for Extrasolar Planetary Systems," Dr. George D. Gatewood, Allegheny Observatory, University of Pittsburgh.

Dance

Meredith Monk Repertory Company The Meredith Monk Repertory Com-pany, a seven-member company of musi-cians, singers and dancers, will be in residence at the university Feb. 25-27. The visit is sponsored by the Cornell Dance Series

The company will present a voice and



Paracelsus (Paint on Cellophane) is on view at the Johnson Museum as part of the exhibition, "Frederick Sommer at Seventy-Five" a retrospective exhibition of 75 photographs, drawings and musical scores by Frederick Sommer. Sommer studied landscape architecture at Cornell and received his degree in 1927. The exhibition is on view through March 15.

movement workshop from 7 to 9 p.m. Wednesday, Feb. 25, in Helen Newman Hall Dance Studio. The workshop is free and open to the public. Participants need

not have any previous experience.
On Friday, Feb. 27, the company will perform at 8:15 p.m. in the Helen Newman Hall Gymnasium. Tickets, at \$3.50, \$2.50 for students and senior citizens, are on sale at the Cornell Dance Office, the Willard Striaght Ticket Office and at Willard Striaght Ticket Office and at Nippenose in the DeWitt Mall.

An internationally acclaimed composer, choreographer, singer and director, Monk has been described as the "most significant intermedia artist of our time." Since 1964, she has created more than 40 music/theatre/dance works and has received two Village
Voice Obie Awards, a Brandeis Creative
Arts Award in Choreography and four
ASCAP Awards for Musical Composi-

At the Feb. 27 performance, the com-pany, of which Monk is artistic director but not a performing member, will per-form two works, "Paris," made by Monk in collaboration with multi-media direc-tor Ping Chong, and "Plateau No. 3,"

tor Ping Chong, and "Plateau No. 3," choreography and score by Monk.
"Paris" has been described by The New York Times as "a mysterious and intensely involving piece of magic.
"Plateau No. 3" explores different aspects of women's lives in a landscape of desert and mountain.

Monk's work is best described as a "form of non-verbal visual dance/theatre, an integration of several

dance/theatre, an integration of several arts into one specific whole." It explores the language of images, the language of movement and especially the language

of the voice.

Monk's songs "have no words" observes Karen Stoker in the Seattle Sun, "but structured syllables and sounds, spilled out in precise rhythmic patterns, surprisingly comprehensible and eloEvery Thurs., 8-11 p.m. Anabel Taylor One World Room. Israeli Folk Dancing. Every Sun., 7:30 p.m. Straight North Room. International Folkdancing. In-

Room. International Folkdancing. Intermediate and advanced dances taught 7:30-8:30 p.m. Request dancing 8:30-10:45 p.m. Free
Every Tues., 7:30-10:30 p.m. Martha Van Rensselaer Auditorium. Couples dancing, Scottish, English and International teaching and requests. Free. Singles welcome gles welcome

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

Wednesday
Feb. 25, 7-9 p.m. Helen Newman
Dance Office. "Voice and Movement
Workshop," given by members of the
Meredith Monk Repertory Co. Free and
open to all. For more information call
the Cornell Dance Office.

Friday
Feb. 27, 8:15 p.m. *Helen Newman
Hall Gymnasium. Performance by the
Meredith Monk Repertory Company.

Exhibits

Olin Library American Presidents.
Elections and Autographs. A celebration of the Presidency from George Washington through the inauguration of Ronald Reagan. Banners, song sheets, posters and letters from the presidents on issues of the day—including Abe Lincoln's approval of the emancipation of slaves in the District of Columbia in 1862 and the first embossed copy of the Emancipation

the District of Columbia in 1862 and the first embossed copy of the Emancipation Proclamation. Through April 13.

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

H.F. Johnson Museum "Alvar Aalto," through March 1. "Wayáng Kulit: The

Art of Javanese Shadow Puppets," through March 22. "Frederick Sommer at Seventy-five," through March 15. "Permanent Collection," Asian art; European paintings, including Ferdinand Bol, Charles Amedee van Loo and Otto van Schriek; American 19th century landscapes, including William Bradford, George Loring Brown, William Mason Brown, John Kensett, and Theodore Robinson; prints, drawings, and Alberto Giacometti's sculpture, Walking Man II.

Unless otherwise noted films are under sponsorship of Cornell Cinema.
Friday
Feb. 20, 7:30 p.m. Uris Hall

Feb. 20, 7:30 p.m. Uris Hall
Auditorium. "Lesson In Love" (Ingmar
Bergman, Sweden, 1954); short: "A
Movie" (Bruce Conner, U.S., 1958). Pentangle II Free Film Series.
Feb. 20, 9:45 p.m. *Uris Hall
Auditorium. "Eraserhead" (1976),
directed by David Lynch, with John
Nance, Charlotte Stewart, Allen Joseph.
Fri. & Sat.

Feb. 20 & 21, 8 p.m. *Statler
Auditorium. "The Godfather, Part II"
(1975), directed by Francis Ford Coppola, with Robert DeNiro, Al Pacino,
Diane Keaton.

Diane Keaton.
Feb. 20 & 21, midnight *Statler
Auditorium. "Up In Smoke" (1978),
directed by Lou Adler, with Cheech
Marin, Tommy Chong, Strother Martin.
Saturday
Feb. 21, 7:30 & 9:45 p.m. *Uris Hall
Auditorium. "Eraserhead."

Auditorium. "Eraserhead."
Sunday
Feb. 22, 2 p.m. *Uris Hall Auditorium.
"The Kid" (1921), directed by Sir
Charles Chaplin, with Charlie Chaplin,
Jackie Coogan, Mack Swain. Co-sponsored by the Ithaca Youth Bureau.
Feb. 22, 8 p.m. *Uris Hall Auditorium.
"Conrack" (1973), directed by Martin
Ritt, with Paul Winfield, Jon Voight,
Hume Cronin. Southern Lives Series.

Hume Cronin. Southern Lives Series.

Feb. 23, 9 p.m. *Uris Hall Auditorium.

"A Married Woman" (1965), directed by
Jean-Luc Godard, with Macha Meril,
Bernard Noel, Philippe LeRoy. Shown
with "Dark." Film Club members only.

Tuesday
Feb. 24, 4 p.m. Morrill Hall 106.
Southeast Asia Free Film Series.

Southeast Asia Free Film Series.

"Ma'bugi: Dance of the Toraja; Panji."

Wednesday

Feb. 25, 8 p.m. *Uris Hall Auditorium.

"Portrait of Teresa" (1979), directed by
Pastor Vega, with Daisy Granados,
Adolpho Llaurado. Co-sponsored by
CUSLAR, Latin American Studies Program

Friday
Feb. 27, 7:30 p.m. Uris Hall
Auditorium. Pentangle II Faculty Free
Film Series: "The Blue Light" (Leni
Riefenstahl, Germany, 1932); short:
"The Smiling Madame Beudet" (Germaine Dulac, France, 1922-23).
Feb. 27, 9:45 p.m. *Uris Hall
Auditorium. "Wise Blood" (1979),
directed by John Huston, with Brad
Dourif, Ned Beatty, John Huston, Mary
Nell Santacroce.

Nell Santacroce

Fri. & Sat.
Feb. 27 & 28, 7:30 p.m. *Statler
Auditorium. "A Clockwork Orange"
(1971), directed by Stanley Kubrick, with
Malcolm McDowell, Patrick Magee,
Adrigne Corri

Malcolm McDowell, Patrick Magee, Adrienne Corri. Feb. 27 & 28, 10:15 p.m. *Statler Auditorium. ''Gilda Live'' (1980), directed by Mike Nichols, with Gilda Radner, Father Guido Sarducci.

Lectures

Thursday
Feb. 19, 8 p.m. Uris Hall Auditorium.
Preston Thomas Memorial Lecture
Series: Karl Fleig, architect speaking on
the work of Finnish architect Alyar
Aalto

Friday
Feb. 20, 8 p.m. Anabel Taylor Founders Room. "Preserving the Person:
Some Tensions Within Behaviorism,"
Mary Stewart Van Leeuwen, Associate
Professor of Psychology, York University, Ontario, Canada. Cornell Graduate
Christian Forum sponsor.

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

Saturday
Feb. 21, 11 a.m. Anabel Taylor Forum.
''Nature, Nurture, or Neither? Sex Roles
Considered in Psychological and Theological Perspective,'' Mary Stewart Van
Leeuwen, Associate Professor of Psychology, York University, Ontario, Canada. Cornell Graduate Christian Forum.

Monday

da. Cornell Graduate Christian Forum.

Monday

Feb. 23, 4:30 p.m. Goldwin Smith
Kaufman Auditorium. "Some Aspects of
Early Learning and Development,"
Xing-chu Zeng, Professor of Psychology,
Shanghai Normal University, People's
Republic of China. Co-sponsored by
China-Japan Program and Dept. of Human Development and Family Studies.
Feb. 23, 7:30 p.m. Anabel Taylor One
World Room. "America and World Community," an interdisciplinary course:
"How TV Alters the Thought Environment," Rose Goldsen, Professor, Soci-

ment," Rose Goldsen, Professor, Soci-

Tuesday
Feb. 24, 4:30 p.m. Andrew D. White
House Guerlac Room. Society for the
Humanities: "De Sanctis: Fortrait of a
Critic," Dante Della Terza, Department

of Romance Languages, Harvard.
Feb. 24, 8 p.m. Uris Hall Auditorium.
Preston Thomas Memorial Lecture
Series. Vernon Demars, the architect

Series. Vernon Demars, the architect who supervised the Aalto library in Mount Angel, Oregon, speaking on the work of Finnish architect Alvar Aalto.

Wednesday

Feb. 25, 4:30 p.m. Goldwin Smith 156.

"No Time Limit for War Crimes: A German Experience," Professor Guy Stern, Department of German, Wayne State University. Colonel Yonatan Netanyahu Memorial Lecture: "Ger-Netanyahu Memorial Lecture: "Germans and/or Jews," a lecture series sponsored by The Program of Jewish Studies and The Department of German

Kitales and The Department of German Literature. Feb. 25, 7:30 p.m. Anabel Taylor One World Room. "America and World Com-munity," an interdisciplinary course. "How TV Alters the Thought Environ-ment," Rose Goldsen, Professor, Soci-

Thursday
Feb. 26, 4 p.m. Hollis E. Cornell
Auditorium. "What Occurs When Language is Acquired," Ragnar Rommetveit, Professor of Psychology, University of Oslo, and Andrew D. White

sity of Oslo, and Andrew D. White
Professor-at-Large.
Feb. 26, 4:15 p.m. Goldwin Smith 283.
Renaissance Colloquium: "The Calumny
of Apelles: A Study in the Humanist
Tradition," Dr. David Cast, Visiting
Fellow, History of Art, Cornell.
Feb. 26, 4:30 p.m. Andrew D. White
House Guerlac Room. Society for the
Humanities Poetry Reading, David
Lehman, Fellow, Society for the Humanities

reston Thomas Lecture Series. Paul Pearson, architectural historian at City College of New York, speaking on the work of Finnish architect Alvar Aalto.

Friday

Feb. 27, 3:30 p.m. Goldwin Smith Hollis E. Cornell Auditorium. University Lecture: "The Sceptic in His Time and Place," Myles Burnyeat, Fellow of Robinson College, Cambridge and University Lecturer in Classics.

Meetings

Every Thurs., 7:30 a.m. Anabel Taylor Every Thurs., 7:30 a.m. Anabel Taylor
One World Room. Disarmament
Study/Action Group breakfast. For more
information contact Jack Lewis or Phil
Bogdonoff, 256-4214. All welcome.
Every Thurs., 12:30 p.m. Anabel Taylor Forum. Alcoholics Anonymous.
Every Fri. & Sat., 6:30 p.m. Upson
Hall 111. Cornell Dungeons & Dragons
Club meeting.

Club meeting.

Every Sat., 12 noon-5 p.m. Straight
Loft 2. Cornell Wargamers meeting. All

Every Mon., 4:30 p.m. Anabel Taylor G-17. Committee on U.S. Latin American Relations.

Every Tues., 7:30 p.m. Anabel Taylor 314. Anthroposophy Study Group of CRESP will consider the topic: "Think-

NetWorking

A Newsletter by Employees....For Employees

Volume 1, Number 12 February 19, 1981

Dept. Feature; CORNELL DAIRY STORE

THE CORNELL DAIRY PLANT

Cornell has had a dairy plant in one form or another since 1880. The first was a classroom in a house where Bailey Hall now stands. Cheese and butter manufacturing were taught as part of Professor I. P. Roberts course on Applied Agriculture.

In 1893, facilities were moved to the north wing of Goldwin Smith Hall and in 1907 to the present East Roberts Hall. Stocking Hall became the current site of the Dairy Plant in 1923. The same year pasteurized milk was processed for the first time, refrigerated storage tanks were added in 1948 and homogenized milk was produced for the first time in 1950. The Dairy Plant was upgraded and moved

within Stocking Hall in 1967. Currently another upgrading is being planned. Changes that will be noticed are the disappearance of the flat-top milk carton and the Tetra-pak creamer.

The Cornell Dairy Plant processes milk from Cornell farms located in the New York State Veterinary College and the Animal Science Teaching and Research Center, a part of the Department of Animal Science. In addition to its full-time staff, the Dairy Plant employs 30-40 students to process the milk and work in the salesroom. A full range of fluid milk products are produced in the plant. Yogurt, ice cream, buttermilk, sherbet and puddings are a few of the other products produced in the Dairy Plant.

Besides processing dairy products for sale, the plant is used for teaching parts of various courses taught in the Department of Food Science. Students are exposed to basic sanitation through engineering in the plant. Professors and graduate students also use the plant for providing milk or other products for research projects being conducted in the Department. Extension efforts, conducted by faculty of the Department, utilize the plant for short courses and training sessions for the Dairy industry.



PAUL LUMBARD RECEIVES DEDICATED SERVICE AWARD

Paul A. Lumbard, Research Technician, has been a member of the staff of the School of Electrical Engineering for 29 years. Paul joined the E. E. School staff in 1952 after School received a U.S. Army Signal Corps contract to test and evaluate all electron tubes replaced during the servicing of Army electronic equipment anywhere in the world. This program involved the testing of hundreds of thousands of tubes using equipment Paul helped design and maintain. As the program progressed, he became involved in the evaluation phase which required understanding the circuitry of the equipment using the "failed tubes," most of which were found to be "good as new." With Paul's assistance, this Cornell program resulted in significantly improved reliability and lesscostly maintenance of U. S. electronic equipment.

The semiconductor industry was in its infancy in 1952 with the transistor only recently invented and having commerical applications. As the dustry developed through the advent of commerical transistors and other semiconductor devices including integrated circuits, Paul kept abreast of field and became adept at the and maintenance of semiconductor equipment as well as that of other developing electronic apparatus. During this period, he was responsible for the equipment in the research laboratories of the E. E. School.

In recent years, Paul's responsibility has been extended to include equipment of the teaching laboratories of the School. The School now inventories electronic and electrical instruments, systems, and devices valued at more than \$40,000,000 and the planned and day-today maintenance of these units is a monumental operation. Nevertheless, Paul and his staff have been able to keep E.E. teaching and research laboratories in an operating condition. Even before his responsibility included instructional equipment, it was common practice from faculty members to call for his assistance in instrument-crisis situations where instruction was in jeopardy because all other help failed. Rarely, if ever, was a faculty member disappointed by Paul's considerate and skillfull response. leaving little doubt that Cornell's Electrical Engineering School is a better place to work and study because Paul A. Lumbard is a member of the staff.

Submitted by Prof. Paul Ankrum

The Editorial Board of Networking is pleased to elect Paul A. Lumbard to received the February, 1981 Dedicated Service Award.

Paul Lumbard is a perfect example of the dedicated people, unsung heroes, who make Cornell University click.

THOMAS SPEAKS AT BBL

Gerry Thomas, Manager of Personnel Development and Training spoke at the January 28th Brown Bag Luncheon sponsored by the employee elected trustees and others. His talk dealt with the variety of development and training courses offered thru his department. He divided the services offered into three parts—training, education and counseling.

Training courses are listed in a quarterly announcement distributed to Deans, Directors and Department Heads. He emphasized that if people have not been aware of the listing they can call his office for a copy.

Employee Elected Trustee Report

The January series of meetings of the Board of Trustees were held in NYC at the Medical College facilities. Most of the important business that took place has been reported already in the Chronicle, The Ithaca Journal and the Daily Sun. We would urge employees to read those reports.

It has been said that any organization is only as effective as its ability to communicate. For that reason we have attempted to improve communications at Cornell. But it becomes clear that none of us are clever enough to do an adequate job of it. However our lack of talent in this area is being offset by our persistance and patience. We will keep trying.

We have sponsored the Brown Bag Luncheon series. Attendance has increased to approximately 50 people per session. Snacks and beverages are provided to help convey a sense of the informal nature. of the meetings. For those who do attend it affords an opportunity to hear and share ideas, concerns and information.

Members of the Editorial Board of Networking continue to urge that more material be submitted by more employees. Some progress is made. More people are learning more about this very complex and diverse institution. Some people are learning who to go to for what answers. Someone even called to say that there was a mistake in our answers to the Benefits quiz last month.

A cartoonist has volunteered to provide his services and now a (young) old friend from Senate days, John Bender, has volunteered to serve on the Editorial Board and is providing sketches that brighten up this issue of Networking.

As more of you share your ideas and talents this paper can grow from its original status to an effective communication vehicle.

We urge more of you to promote improved communications by promoting the Brown Bag Luncheon sessions and Networking.

Remember that effective communications is multidirectional.

George Peter - Margaret Seacord

Editorial Board

Joan Lockwood Parker - Editor
John Bender
Linda English
"Ace" Isaf
George Peter
Margaret Seacord
Elizabeth Selvarajah
Dominic Versage
Ida Wolff

RELEASE TIME POLICY

Release time provides time off with pay during an employee's regularly scheduled working hours to serve on official University committees.

The policy applies to all non-academic employees.

The University encourages employees to serve on University committees whenever possible. Release time from work is dependent upon the approval of the employee's immediate supervisor and the ability of the department to function satisfactorily in the employee's temporary absence.

Participating employees are encouraged to schedule non-job-related committee activities during non-working hours when participation is not restricted by job responsibilities. However, the University recognizes that certain activities can only take place during regular working hours. In those instances, release time will be granted in accordance with the following procedure:

Employees who are appointed to an official University committee shall notify their supervisors when the appointment becomes effective.

Employee members of official committees who desire time off from work to serve on official committees should notify their immediate supervisor of the meeting. The supervisor will grant time off unless the staffing needs of the department require the employee's presence at the particular time.

If approved, non-exempt employees will be paid for release time to serve on official committees during normal working hours. Time off to serve on official committees is recorded on their regular payroll time cards in the Leave With Pay column.

Employees who have not been officially appointed to such committees, but who wish to attend committee meetings or volunteer their services during working hours, must obtain prior approval of their supervisor before leaving their job. As with other non-job related activity, employees must charge such time to personal leave or vacation time, or take the time without pay.

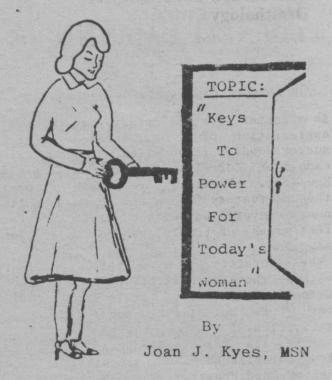
Departments are responsible for maintaining the accuracy of accrued leave records for its exempt employees and should ensure that time is reported accurately on the time cards for non-exempt employees.

TRANSACTIONAL ANALYSIS March 19, 20

9:00-12:00 & 1:00-4:00
A study of behavior that emphasizes understanding of personality structure and the way behavior is acquired and employed. It is a useful method of helping people to use their own mental resources more fully, to be aware of and change behavior, and as a tool in problem solving and decision making. Two day program. \$40 charge to sponsoring department.

SYRACUSE CHAPTER

THE NATIONAL SECRETARIES
ASSOCIATION
(International)





ANNUAL SEMINAR
SATURDAY, FEBRUARY 28, 1981
LeMOYNE MANOR

REGISTRATION FORM

Presented by: Syracuse Chapter NSA
Mail to: Mrs. Nancy A. Dore
203 Meadow Road
Syracuse, N.Y. 13219

Saturday, February 28, 1981 LeMoyne Manor, Liverpool, N.Y. 13088 Reservations: \$15.00 pp NSA Member \$20.00 pp Non-Member (Includes coffee break, lunch &

	seminar materials)												
ENCLOSED IS \$		FOR				RESERVAT	IONS	FOR	THE	"KEYS	TO	POWER	FOR
'ODAY'S WOMAN''	SEMINAR.	PLEASE MAKE	CHECK	PAYABLE	TO	SYRACUSE	CHAP	TER	NSA.				
AMI:			COMPA	NY AFFIL	IAT	ION			ZWE				
									***************************************	-			

Important: Please attach a list if registration is for several persons.

TGISTER NOW: DEADLINE FEBRUARY 21, 1981. No checks will be refunded after this date.

Cancellations must be 24 hrs. in advance.



The Cornell Laboratory of Ornithology

THE CORNELL LABORATORY OF ORNITHOLOGY

is a center for the study and cultural appreciation of birds, located in Sapsucker Woods, three miles from the main campus of Cornell University at Ithaca, New York. Visitors are always welcome; the Observatory is open to the public nearly every day of the year, and the four miles of trails can be enjoyed at any time.

The Laboratory is a separate department within the administrative complex of Cornell University. It is devoted primarily to scientific and educational activities.

Among its scientific pursuits is the long-established and successful Next Record Card Program. Through the cooperation of many hundreds of bird watchers throughout the United States and Canada, statistical data on the nestling of all North American species are gathered and analyzed to determine population trends, rates of survival, and other phenomena. The Colonial Bird Register, established more recently and administered in cooperation with the National Audubon Society, seeks to gather similar information on all aquatic birds that nest in colonies in North and Middle America. A pioneer in the field of bird sound recording, the Laboratory continues to enlarge its outstanding collection of recordings in the Library of Natural Sounds. The Peregrine Program, breeding endangered birds of Prey in captivity and reestablishing them in the wild, is making steady progress.

The Laboratory is essentially self-supporting. Most of its funds for research and educational programs are obtained through gifts, grants, and memberships, and through the sale of records, books, color slides, and other items of special interest to both serious and casual birders. Members of the Laboratory are entitled to a 15 percent discount on all Purchases from the Book Shop. Members also receive the Laboratory's annual Publication, THE LIVING BIRD, and the quarterly NEWSLETTER.

The Laboratory's educational endeavors are varied. It offers a unique home study course in bird biology, SEMINARS IN ORNITHOLOGY, which will soon be supplemented with a course on bird photography. Other teaching media include classes, seminars, exhibits, and publications; the production of records and cassettes of bird songs; and the development of an excellent collection of color slides, available through purchase for classroom and lecture use, and also for personal enjoyment.

Do You Know Your Benefits?

DIRECTIONS: Select the answer which correctly completes the statement.

- 1. Your basic life insurance premiums are paid for by
 - a. You only
 - b. The University only
 - c. You and the University equally
 - d. There are no premiums
- 2. The Cornell Health Care Plan covers
 - a. Prescriptions drugs
 - b. Private counseling and therapy
 - c. Home health care
 - d. All of the above
 - e. None of the above
- 3. The Cornell Health Care Plan covers dependent full-time students to age
 - a. 19
 - b. 22
 - c. 25
 - d. As long as the parent coverage continues
- 4. Normally, a Cornell employee who receives Long Term Disability payments could possibly continue to receive payments
 - a. To age 65
 - b. For 26 weeks
 - c. For 5 years
 - d. For a period based on your years of service
- 5. A Cornell non-exempt employee at age 65 with 30 years of service would have a total retirement income of approximately
 - a. 50% of their final salary
 - b. 60% of their final salary
 - c. 70% of their final salary
 - d. 80% of their final salary

Answers on page 4...

CAMPUS COUNCIL SMOKING COMMITTEE APPOINTED

The Campus Council voted last fall to appoint an ad-hoc committee to study the existing university policy on smoking. The committee is charged to make recommendations for any changes in the existing policy if they determine that the present policy is inadequate. They may report that no changes are needed.

The committee has been selected and will have held its first meeting by the time you read this.

Eleanor Rice and Diane M. Smith have been selected as employee representatives. Additionally, 2 faculty and 2 students have been selected. Eleanor

has been appointed chairperson for this committee.

All employees with concerns regarding the smoking issue are urged to contact these representatives.

"I've read so much about the harmful effects of smoking that I'm going to give up reading".

BOWLING/B-B-Q

Helen Newman Bowling Alley
Sat & Sun March 14 & 15
12:45 pm - 3:00 pm - 5:15 pm
Scotch Doubles (male/female partners)
By Preregistration Only
(deadline to sign up--March 9)
Call 6-4200

\$4.00 per person includes chicken BBQ dinner, bowling, prizes

To help promote the Helen Newman Bowling Alley. Chuck Parkin, Manager, is sponsoring a combination BOWLING PARTY and CHICKEN BARBECUE. The barbecue will be prepared by Al Reed, who is famous now for his talents of putting together "a party.".

At a recent Brown Bag Luncheon session Chuck Parkin explained the details of the upcoming event—it will be a two day affair—both Saturday and Sunday (March 14 and 15). Bowling will be scheduled at 12:45 pm, 3:00 pm and at 5:15 pm. BBQ will be available during those hours. People must preregister by March 9th and must specify which day and hour they plan to bowl.

The \$4.00 fee includes bowling, BBQ and prize money. The breakdown is \$2.00 for the BBQ meal, \$1.00 for three games of bowling and \$1.00 for prize money. The BBQ may be purchased separately for \$2.00. If people prefer to bowl without the BBQ meal, they may do so also for \$2.00.

Chuck and Al both emphasize that reservations by preregistration are necessary for the bowling and/or BBQ.

This affair is open to regular bowlers and non-bowlers as well--Scotch Doubles is an arrangement where a couple shares the same frame by alternating throws--Sounds like fun!

BROWN BAG LUNCHEON SCHEDULE

February 25th DATE:

LOCATION: Martha Van Auditorium

Leo Geier, Director GUEST: University Relations

March 11th DATE:

Martha Van Auditorium LOCATION:

Dick Shultz, Director GUEST: Athletic Facilities

March 25th DATE:

LOCATION: Martha Van Auditorium

GUEST:

DATE: April 8th

202 Uris Hall LOCATION:

GHEST:

April 22nd DATE:

LOCATION: 202 Uris Hall

William Herbster, GUEST:

Sr. Vice President

May 13th DATE:

202 Uris Hall LOCATION:

GUEST: James Spencer,

Vice Provost

May 27th DATE:

LOCATION: 202 Uris Hall

GUEST:

Answers to Benefit Quiz:

1. - b

2. - d

3. - c 4. - a

5. - d

A SECRETARY'S PRAYER.

Help me to be a good subordinate, to have the memory of an elephant or one at least three years long...

Help me by some miracle to be able to do six things at one time, answer four telephones at the same time while typing a letter that 'must go out today.' And when that letter does not get signed until tomorrow, give me strength to keep my mouth shut instead of raising cain as I'm tempted to do...

Dear Lord, never let me lose patience even when the boss has me searching the files for hours for something that is later discovered on his desk ...

Help me to have the intelligence of a college professor, though my education was limited to four years of high school ...

Help me to understand and carry out all instructions without any explanations whatsoever ...

Let me always know just where the boss is, what he is doing, and when he will be back, even though he did leave without telling me ...

And Lord, when the year ends, please let me have the foresight not to destroy records that will be asked for in the next few days, even though I have been told to destroy them.

> AMEN (author unknown)

CLASSIFIED ADS

FOR SALE: ENGINE: 1973 350 V8 Chevorlet WAVERLY, PA OR SPENCER VAN ETTEN TO motor - \$70.00. For rebuilding. Call Karen at 6-7673 or 589-6749.

FOR SALE: CARBURETOR: 2 barrel carb for standard transmission from 350 Chevy engine. Excellent shape. \$25.00. Call Karen at 6-7673 or 589-6749.

SUMMER HOUSE EXCHANGE: SIX BEDROOM HOME IN NORTHWEST PUERTO RICO TEN MINUTES FROM - 4:00 p.m. M-Thurs. , Lv Cornell -SOME OF THE FINEST SKINDIVING REEFS IN THE CARIBBEAN! Available June-August, in exchange for summer housing in Ithaca. Write Michael M. Davis, Head, Radio Astronomy Group, Arecibo Observatory, Box Hours: M - Th. 8:00-5:00, F 8:00 -995, Arecibo, Puerto Rico 00612, or call 4:00, Call Gail, 6-2066 or 838-3690 (809) 878-2612 (office) or 890-4245 (Home) evenings.

FOR SALE: COAL STOVE - \$75 or best offer. Great for cottage or workshop -Call Joan 277-0853 after 7:00 p.m.

FOR SALE: VOLVO AM RADIO - \$15, Joan 277-0853 after 7:00 p.m.

FOR SALE: Girl's 10-Speed BIKE, (J. C. Penny's brand) Good condition, used one year. \$85. Call Bernie Cook -564-9375.

WANTED: Boy's ice skates (figure) size 6 1/2 or 7. - Call Bernie Cook at 564-9375.

FOR SALE: Homelite 150 Chainsaw, bar, new chain, sprocket nose, 5-6 years old, \$100, Bernie Cook - 564-9375.

FOR RENT: 3-Bedroom House with wood or oil heat. Washer & Dryer included in full basement 2 Full baths with eat-in kitchen & large livingroom. \$350 + utilities. Located 12 miles Ithaca with carpooling avaiable. Available now! - Contact Bernie Cook 564-9375.

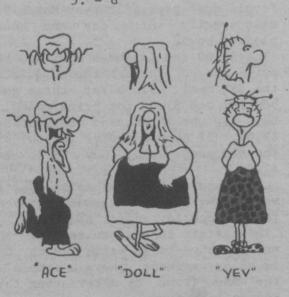
RIDESHARING

SPENCER. NY TO ITHACA - MICHIGAN HOLLOW ROAD. Contact Bonnie Soper - Comp. Serv. G-02 Uris Hall. 6-4981. CAN ONLY RIDE -Hours: 7:30 - 4:00 p.m.

ITHACA, (Via Route 34) CONTACT LINDA at 6-4284. This is an ongoing Car pool, with a U-permit. Hours: 8:00 -4:30, M-F. This carpool is very dependable and is over 7 years old!

SPENCER, NY TO ITHACA - RIDER NEEDED, Contact Karen 6-7673. HOURS: 6:00 am at 3:00 on Fridays. Travel via route 96/34.

MCLEAN TO ITHACA - PREFER TO RIDE -



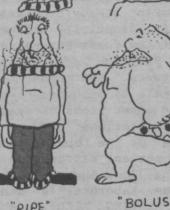
















"BOLUS"

Cornell Chronicle



Trumpet virtuoso Maurice Andre and the Wuerttenberg Chamber Orchestra will perform at 8:15 p.m. Friday, Feb. 20, in Bailey Hall. Works by Mendelssohn, Stolzel, Tchaikovsky and Bellini will be performed. Tickets are on sale at the Lincoln Hall Ticket office, 256-5144. Free bus service, beginning at 7:30 p.m. will be provided between parking lot B and Bailey Hall with a stop at the Dairy Bar.

ing Redeemed: Rudolf Steiner's 'Philosophy of Spirtual Activity.''' Everyone is welcome. For information call 272-3170 or see the secretary in Anabel

Wednesday Feb. 25, 4:30 p.m. Ives 110. Faculty Council of Representatives

Music

Synthesizer Ensemble

The David Borden Synthesizer Ensemble with Paul Epstein and Nurit Tilles will present a concert at 2 p.m. Sunday, Feb. 22, in the first floor gallery of the Herbert F. Johnson Museum of Art. The concert is being made possible in part through a Meet the Composer grant.

Borden is the composer/pianist for dance at Cornell. Epstein and Tilles are currently keyboard performers with the Laura Dean Dance

Company.

The concert will consist of selections from Borden's "Continuing Story of Counterpoint" and two parts from his series entitled Times, Places." The latter will feature the premiere performance

of "Esty Point, Summer 1978." The concert is free and open to the public.

Four Recitals Scheduled

Four recitals have been scheduled by the Music Department this coming week. All are free and open to the public. Cornell music students will present a

pair of recitals tonight and Saturday in Barnes Hall, both at 8:15 p.m.

Kathryn Emerson, a sophomore music major studying piano with Professor Malcolm Bilson, will perform this evening. Her recital will include a Schubert Impromptu and Chopin Ballade, Beethoven's Sonata in B flat Major, Opus

22, and Hindemith's 1922 Suite, Opus 26.
On Saturday, the recital will be given by student cellists studying with Professor John Hsu and a violin pupil of Professor Sonya Monosoff. Lisa Tipton, a senior music major, will play Sonata No. 1 in G minor for solo violin by J.S. Bach and Sonata in A Major by Cesar Franck, with Bilson at the piano. Cellist Carol Kutchukian will perform Kol Nidrei by Max Bruch and cellist Sabine on Falkenhausen will play Variations
on a Theme from Handel's "Judeas
Maccabaeus" by Beethoven. Both,
freshmen in the College of Arts and

Milkove.
Chamber music of the 20th century
will be performed at 4 p.m. Sunday, Feb.
22, in Barnes Hall.

Sciences, will be accompanied by Siri

22, in Barnes Hall.

Featured will be Mimmi Fulmer,
soprano; Edward Murray, piano; and
Sonya Monosoff, violin. Tney will be
joined by Carey Beth Hockett, cello;
Michael Salmirs, piano; Laura
Campbell, flute; Mike Duncan, oboe;
Richard MacDowell, clarinet; Elizabeth
Middley, horn; and John Menkis Midgley, horn; and John Menkis,

Works to be heard are Four Songs,
Opus 2 by Alban Berg, The Ruin by
Edward Cohan, Sonata for Violin and
Cello by Maurice Ravel, Chansons de
Bilitis by Claude Debussy and Sextet for
Piano and Winds by Francis Poulenc.
Songs by Charles Ives will be presented at 4:20 p. m. Wednesday, Feb. 25, in

ented at 4:30 p.m. Wednesday, Feb. 25, in

Barnes Hall.
Performing the works of the American composer, who lived in New England from 1974 to 1954, are Martin Hatch, baritone, Trudy Borden, accompanist, and Philip Krasicky, piccolo.
The themes of these songs are love, religion, patriotism, war and the "good old days." Narration by Ron Bukoff will

Narration by Ron Bukoff will place the songs in perspective and trace them to the hymns, popular songs and folk tunes from which they originate.

Thursday Feb. 19, 8:15 p.m. Barnes Hall. Student recital: Kathryn Emerson, piano. Works of Beethoven, Chopin, Hindemith,

Friday Feb. 20, 8:15 p.m. *Bailey Hall. Faculty Committee on Music: Wuerttemberg Chamber Ensemble with Maurice Andre, trumpet. Works of Vivaldi, Mendelssohn, Stoeizel, Tchaikovsky, Bellini.

Saturday Feb. 21, 8:15 p.m. Barnes Hall. Student recital. Works for cello and violin by Beethoven, Bach, Bruch, Franck.

Sunday
Feb. 22, 2 p.m. H.F. Johnson Museum.
The David Borden Synthesizer
Emsemble with Paul Epstein and Nurit Tilles. Mr. Borden is the Composer/Pianist for Dance at Cornell. Mr. Epstein and Ms. Tilles are currently Mr. Epstein and Ms. Tilles are currently keyboard performers with the Laura Dean Dance Company. Selections from Borden's Continuing Story of Counterpoint and two parts from his series entitled "Times, Places." The latter will feature the premier performance of "Esty Point, Summer, 1978." The event is made possible in part through a grant is made possible in part through a grant

from "Meet the Composer." Free and

open to the public.
Feb. 22, 4 p.m. Barnes Hall. Chamber music of the 19th and 20th centuries: Sonva Monosoff, Edward Murray and

Wednesday
Feb. 25, 4:30 p.m. Barnes Hall. Songs
of Charles Ives: Martin Hatich, baritone,
and Trudi Borden, piano.
Friday

Feb. 27, 8:15 p.m. Barnes Hall. Amade Trio: Malcolm Bilson, fortepiano, Sonya Monosoff, violin, John Hsu, cello. Works of Haydn, Beethoven, Mozart.

of Haydn, Beethoven, Mozart.
Saturday
Feb.28, 3 p.m. *Bailey Hall. Cornell
Symphony Orchesta and The Ithaca
Ballet in "The Story of Babar" set to
music by F. Poulenc with Richard
Driscoll narrating, and "Mother Goose
Suite" by M. Ravel. Tompkins County
Arts Council's second benefit family Arts Council's second benefit family matinee. Tickets available from Willard Straight, Isle of You, Ithaca Commons, Arts Council, Dewitt Building.

Feb. 28, 8:15 p.m. Johnson Museum. Excerpts From A Javanese Shadow Puppet Performance: guest artist Sumarsam, accompanied by Cornell

Gamelan Ensemble

Religion

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

Every Fri., 1 p.m. Anabel Taylor Edwards Room. JUMA Prayers or-

ganized by the Muslim Educational and Cultural Assoc. of Cornell. Every Fri., 5:30 p.m. Anabel Taylor Founders Room. Shabbat Services (Con-

Every Fri., 5:30 p.m. Anabel Taylor Chapel. Shabbat Services (Reform). Every Sat., 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Or-

Every Sat., 9:45 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative).

Every Sat., 5:15 p.m. Anabel Taylor Auditorium. Catholic Eucharist. Every Sun., 9:30 a.m. Anabel Taylor

Chapel. Episcopal Eucharist Worship Service. Nursery and Church School pro-vided. Faculty and students welcome.

Coffee hour after.
Every Sun., 9:30 & 11 a.m. Anabel
Taylor Auditorium. Catholic Eucharist.

Church school and nursery provided. Every Sun., 9:45 a.m. Anabel Taylor Edwards Room. Ithaca Society of Friends (Quakers) adult discussion followed by meeting for worship at 11 a.m.
Every Sun., 10 a.m. Straight North
Room. Korean Church at Cornell.

Every Sun., 10:30 a.m. Straight Lofts 2 & 3. University Church of Christ. Wor-

ship Service and Bible study. Students and faculty welcome. Call 272-6242 for information. James E. Johnson, Jr., . evangelist.

Every Sun., 11:15 a.m. Anabel Taylor Chapel. Protestant Church at Cornell. Coffee and conversation after. Every Sun., 5 p.m. Anabel Taylor Auditorium. Gatholic Eucharist.

Sunday
Feb. 22, 11 a.m. Sage Chapel. Howard
Feinstein, Ithaca Psychiatrist, Adjunct
Associate Professor of Psychology, Cor-

Sunday Mar. 1, 11 a.m. Sage Chapel: Jerome Ziegler, Dean, New York State College of Human Ecology, Cornell.

Seminars

Atomic and Solid State Physics: "In Search of the Holy Grail—Melting via Dislocations in 2D," Peter Stevens, SUNY Stony Brook, 4:30 p.m. Tuesday, Feb. 24, 701 Clark Hall.

Feb. 24, 701 Clark Hall.

Atomic and Solid State Physics Theory
Seminar: "Wetting, Prewetting and
Multilayer Adsorption of Gases on Substrates," Rahul Pandit, University of
Illinois, 1:15 p.m. Thursday, Feb. 26,
701-702 Clark Hall.

Biochemistry: "The Role of a Protein
Kinase Cascade in Glycolysis in
Tumors," Efraim Racker, 4:30 p.m.
Friday, Feb. 20, 204 Stocking Hall.

Biological Sciences: "Human Naviga-

tion and the Sixth Sense," R. Robin Baker, University of Manchester, Eng land, 4:30 p.m. Thursday, Feb. 19, G-1

Uris Hall.

Boyce Thompson Institute;
"Hydrogen Ion Transport in Microsomal Vescicles of Corn Roots," Frances Dupont, 3:15 p.m. Wednesday, Feb. 25,
Boyce Thompson Institute Auditorium.
Chemical Engineering: "Modeling of Turbulence," John L. Lumley, 4:15 p.m.
Monday, Feb. 23, 145A Olin Hall.
Classics Discussion Graum: "Boyman"

Classics Discussion Group: "Roman Violence in Silius Italicus' Punica," Donald T. McGuire Jr., 4 p.m. Friday, Feb. 20, 248 Goldwin Smith Hall.

Computer Services: "Survey of DEC-20 Editors," C. Wiecha, 3:30 p.m. Friday, Feb. 20, G-14 Uris Hall.

Ecology and Systematics: "Body Size in Marine Invertebrates: Indeterminate Growth and Reproductive Success in Variable Habitats," Kenneth P. Sebens Harvard University, 4:30 p.m. Wednes-day, Feb. 25, Penthouse, Langmuir Lab. Electrical Engineering: "Architec-tural Trade-Offs in VLSI Design," Jef-

frey Winston, Digital Equipment, Hudson, MA., 4:30 p.m. Tuesday, Feb. 24, 219 Phillips Hall.

24, 219 Phillips Hall.

Entomology: "Reproductive Plasticity in the Neotropical Termite
Nasutitermes Corniger," Barbara
Thorne, Harvard University, 4 p.m. Monday, Feb. 23, 100 Caldwell Hall.

Food Science: "Freeze Flo Technology: Energy Conservation Through Formulation of Products to be Frozen,"
Marvin L. Kayn, V. P. Research & De-

mulation of Products to be Frozen,"
Marvin L. Kayn, V.P. Research & Development, Rich Products Corp., 4:30
p.m. Tuesday, Feb. 24, 204 Stocking Hall.
General Chemistry: "The Origin of Hydrogen in Biogenic Methane, Robin Spencer, MIT, 4:40 p.m. Thursday, Feb. 26, 119 Baker Lab.
International Planning: "Multi-National Capitalism, National States and Local Communities," Manuel Castells, Univ. of Calif. at Berkeley, 12:15 p.m. Friday, Feb. 20, 157 Sibley Hall.
Materials Science and Engineering: "Surface Phases: Matalurgy in Two

"Surface Phases: Matalurgy in Two
Dimensions," J. M. Blakely, 4:30 p.m.
Thursday, Feb. 19, 140 Bard Hall.
Mechanical and Aerospace Engineering: "Shock Wave Ignition of Pulverized
Coal," Erdem Ural, University of Michi-

gan, 4:30 p.m. Tuesday, Feb. 24, 282 Grumman.

Grumman.

Mechanical and Aerospace Engineering: "An Approach to the Design of Distributed Machinery Control Systems," N.A. Duffie, University of Wisconsin, 4:30 p.m. Thursday, Feb. 26, 282

Grumman.

Microbiology: "Predicting the
Dynamics of Rumen Bacterial
Ecology," James Russell, 4:30 p.m.
Thursday, Feb. 19, 124 Stocking Hall.
Operations Research: "Approximations Research: "Approximati

Operations Research: "Approximations in Project Compression," Salah E. Elmaghraby, North Carolina State Univ., 4:30 p.m. Tuesday, Feb. 24, 305

Univ., 4:30 p.m. Tuesday, Univ., 4:30 p.m. Tuesday, Upson Hall.
Organic/Organometallic Chemistry:
'Oxidation of Polyunsaturated Fatty
Acids and Phospholipids. Cyclic Peroxide Intermediates in Lipid Oxidations,' Ned A. Porter, Duke University,
Monday, Feb. 23, 119 Baker

Ornithology: "Release the Falcon...And Free This Artist's Imperfect Eye," Karen Confer, 7:45 p.m. Monday, Ebeb. 23, Stuart Observatory, Sansuaker Woods Sapsucker Woods.

Sapsucker Woods.
Physiology: "Sexual Differentiation of Brain and Behavior in Birds," Elizabeth Adkins-Regan, 4:30 p.m. Tuesday, Feb. 24, G-3 Vet. Research Tower.
Plant Pathology: "Interesting Encounters of the Third-World Kind—Some Experiences With Plant Diseases in the Tropics," R. J. Williams, 4:30 p.m.
Tuesday, Feb. 24, 404 Plant Science Building

Building.
Political Economy: "American Political Economy and the Urban Fiscal Crisis," Manuel Castells, Univ. of Calif. at Berkeley, 3 p.m. Friday, Feb. 20, 202 Uris Hall.

Preventive Medicine: "Large Scale Morbidity Studies in Injury
Epidemiology: Past, Present and
Future," Jerome Barancik, Case
Western Reserve University, 12:05 p.m. Tuesday, Feb. 24, G-3 Vet. Research

Psychology: "Cognitive/Human Factors," Lynn Streeter, Bell Labs., 3:30 p.m. Friday, Feb. 20, 202 Uris Hall. Statistics: "Assigning Probabilities to the Outcomes of Horse Races, and Other

Multi-entry Competitions," David A. Harville, Iowa State University, 3:15 Wednesday, Feb. 25, 105 ILR Conf.

Theoretical and Applied Mechanics: Analysis of Thermal Instabilities in a Layer of Nematic Liquid Crystal with Oblique Orientation of the Boundaries,"
J.S. Bramley, University of Strathclyde, 4:30 p.m. Wednesday, Feb. 25, 205 Thurston Hall.

Thurston Hall.

Vegetable Crops: "Earning and
Learning Through Vegetables," Frank
H. Wiles, Cooperative Extension Agent,
Tioga County, 4:30 p.m. Thursday, Feb.
19, 404 Plant Science Building.

Western Societies Program: "Multi-

national Capitalism, National States and Local Communities," Manuel Castells, Univ. of Calif. at Berkeley, 12:15 p.m. Friday, Feb. 20, 157 Sibley Hall.

Sports

Friday Feb. 20, 5:15 p.m. Barton. Men's JV Basketball-Oneonta.

Feb. 20, 5:15 p.m. Helen Newman. Women's Varsity Basketball-

Women's values
Dartmouth.
Feb. 20, 7:30 p.m. *Barton. Men's
Varsity Basketball-Dartmouth.
Saturday
Helen Newman.

Saturday
Feb. 21, 12 noon Helen Newman.
Women's Varsity Bowling-Oswego.
Feb. 21, 2 p.m. Teagle. Men's Varsity
Swimming-Dartmouth.
Feb. 21, 5:15 p.m. Barton. Men's JV
Basketball-Colgate.
Feb. 21, 5:15 p.m. Helen Newman.
Women's Varsity Basketball-Harvard.
Feb. 21, 7:30 p.m. *Barton. Men's
Varsity Basketball-Harvard.
Feb. 21, 8:15 p.m. *Oxley Polo Arena.
Men's Polo-Highview Farms.
Friday
Feb. 27, 5:15 p.m. Barton. Men's JV

Friday
Feb. 27, 5:15 p.m. Barton. Men's JV
Basketball-Mansfield.
Feb. 27, 7:30 p.m. *Barton. Men's
Varsity Basketball-Yale.
Feb. 27, 7:30 p.m. *Lynah. Men's
Varsity Hockey-Dartmouth.
Saturday
Feb. 28, 2 p.m. Toogle, Men's Varsity

Feb. 28, 2 p.m. Teagle. Men's Varsity
Fencing-Pennsylvania.
Feb. 28, 2 p.m. Helen Newman.
Women's Varsity Fencing-Pennsylvania.
Feb. 28, 5:15 p.m. Barton. Men's JV
Basketball-Binghamton.

Feb. 28, 7:30 p.m. *Barton. Men's
Varsity Basketball-Brown.
Feb. 28, 7:30 p.m. *Lynah. Men's
Varsity Hockey-Harvard.
Feb. 28, 8:15 p.m. *Oxley Polo Arena.
Men's Polo-Toronto.

Sunday Mar. 1, 1 p.m. Barton. Women's In-door Track Ivy Tournament.

GIVITAS

Mary McGinnis -Coordinator, CIVITAS FRIENDS TO FOREIGN STU-

DENTS: This program seeks volunteers to act as cultural/linguistic guides and friends to foreign students enrolled in the Intensive English Program at Cornell. Many IEP students are newcomers to the U.S. and find Cornell a difficult place to make friends. Share a few hours of your week and enjoy an enriching exyour week and enjoy an enriching ex-perience at a mutually convenient time and location.

RECREATION FOR HANDICAPPED

ADULTS: Mon. eve. Drop-In Program needs volunteers to plan and lead (or assist with) varied activities including sports, arts and crafts, dance exercise, games for about 25 handicapped adults. Helpers also needed for Thurs. eve. Community Night to escort handicapped adults to community events and ac tivities (swimming, going out to dinner, movies, sports events). Both programs run from 6:30-8:30 p.m., approx., and

transportation should be no problem.

SATURDAY AFTERNOON YOUTH
PROGRAM: If you are looking for a
weekend volunteer opportunity, downtown youth organization is seeking leaders to coordinate and run minin-venture short-term projects in crafts, nature, drama or what-you-will for children 7-9 years. About 2-3 hrs/wk for a few weeks FACILITY FOR JUVENILE DELIN-

QUENTS: Has asked us to recruit sever al volunteers to tutor adolescents workal volunteers to tutor adolescents working towards high-school equivalency or to help students in academic difficulty at lower grade levels. Mon. through Thurs. eves., anytime between 5:30-9 p.m. Must feel comfortable working with teenage boys between 14 and 17 years. Briefings on "how to tutor" will be provided, and volunteers will work under supervision of professional staff. Car needed.

ORNITHOLOGY LAB LIBRARY:
Needs the help of one or two volunteers

ORNITHOLOGY LAB LIBRARY:
Needs the help of one or two volunteers during the semester in preparation for book sale. Sorting, labeling, pricing books and general organizational tasks. Must be able to work independently, could be a chance for friends to work together. Anytime, M-F, 8-5, for a few hours a week. Transportation available by Langmuir Lab minibus.

ON-CAMPUS OPPORTUNITY TO HELP VISUALLY HANDICAPPED

HELP VISUALLY HANDICAPPED CORNELL STUDENTS: 1) Readers to work with ILR student in library, Mon. and Wed., 9:30-12 noon, or at any other mutually convenient times. Also 2)
Readers needed for course work in Child Development and Linguistics; also reader proficient in Spanish to assist with TA duties. Hours flexible, but twice a week desirable.

HANDICAPPED PRE-SCHOOLERS: Patient volunteers sought for Water Adjustment Program designed to help handicapped preschoolers become familiar with the water. Work one-on-one under supervision of professional staff. Thurs. aft., 1:30-3 p.m., at the Sheraton

Thurs. aft., 1:30-3 p.m., at the Sheraton Pool. One semester's commitment. Good experience for students planning to work in the area of Special Education.

ONE-TO-ONE HELP IN SCIENCE CLASSROOM: 1) To work with elementary age boy in electronics. Once or twice a week, times negotiable, Mon.-Fri., between 9-2:30 p.m. Schedule must be regular and commitment serious for he regular and commitment serious for the semester; 2) Bright 6th grade boy interested in area of physical science, but unable to work in a group, needs one to-one help to complete projects. Fri. morning, between 9-12 noon, for an hour or so. Downtown school, convenient loca

LOCAL SHELTERED WORKSHOP FOR HANDICAPPED ADULTS: Wel-FOR HANDICAPPED ADULTS: Welcomes volunteers to work; a) One-on-One in the classroom with clients learning basic skills. Mon.-Fri., 8:30-11:30 a.m., for an hour or two on a regular basis; b) One-on-One tutoring for those not involved in planned classroom activities but studying on their own. Mon.-Fri., between 11:30-2 p.m., on a weekly basis; c) One-on-One in workshop production areas (print shop, plastics, woodworking, canvas repair etc.), Mon.-Fri., for an hour or two, weekly. You could also undertake bigger commitment of also undertake bigger commitment of setting up and running recreation pro-gram for clients under supervision of professional staff. All these opportunities located close to campus.

SPONSOR OF REFUGEE FAMILY:

Would like to find volunteer with ex-perience in small business management and/or food marketing to advise a Vietnamese family about starting a food business. Come to CIVITAS for more details

COMMUNCATION ARTS VOLUN-TEER: To assist leader of 4H club in teaching video-taping and super 8 movie skills. Commitment of 2-3 hours./wk. in the late afternoon (specific day to be decided) for whole semester. Volunteer should have some expertise, but training smallable.

RESIDENCE FOR THE ELDERLY: Welcomes volunteers to lead classes in whatever arts and crafts skills you would like to share. Can teach one class or a series, mornings or afternoons, at your convenience. Many of the goods pro-duced will be collected for sale at bazaar

to be held later in the year.
INFORMATION AND REFERRAL
SERVICE FOR SOCIAL AGENCIES: Learn about community human services and develop communication skills through working with downtown I&R service. Especially valuable experience for social work majors. Commitment of 4 hrs./wk., anytime between 8:30-5 p.m., Mon.-Fri. Relaxed, informal and flexible

ITHACA SCHOOLS: Volunteers sought on continuing basis to tutor children of all ages in many areas. Help specifically needed this week: 1) Physics tutor, once a week, 8-9 a.m., Tues., Thurs. or Fri., or between 10-11:30 a.m., Mon.-Fri.; 2) Chemistry tutor, once a week, between 11:30.1 p.m. Tues. week, between 11:30-1 p.m., Tues., Thurs. or Fri. Total weekly commitment of about two hours, one for tutoring, one for travel time.

IF YOU CAN HELP, STOP BY THE

CIVITAS OFFICE, 125 Anabel Taylor Hall, or call 256-7513 for information, Mon.-Fri., 10-2 only. Funded in part by the Student Finance Commission and open to the entire Cornell community

Graduate Bulletin

To avoid paying the active-file fee of \$200 for the spring term, doctoral stu-dents registered for the fall term (or those who took a leave of absence dated 8-30-79 or later) must have met all degree requirements by Feb. 20. This includes filing two acceptable copies of the thesis in the Graduate School office. Fall 1980 grades for graduate students are available at Sage Graduate School office.

Course registration forms must be turned in by all graduate students to the Sage Graduate Center by Feb. 20.
Graduate students who are receiving

tuition assistance from Cornell-adminis-tered sources during the 1980-81 tered sources during the 1980-81 academic year are required to 1) complete an "Acceptance Form for Students in the Graduate School Receiving Cornell Tuition Assistance," indicating their legal state/country of residence, and 2) complete and file a Tuition Assistance Program (TAP) application with the New York State Higher Education Services Corporation (NYSHESC) if they are legal residents of New York state. Students who fail to comply with the above regulations will be billed \$300 for each term in which Cornell tuition assistance has been received. Fall term charges will appear on the February bill, and spring term charges will appear on the March bill. Lists of students who have not fulfilled their obligations as determined by the Bursar's Office have determined by the Bursar's Office have been forwarded to the graduate faculty representatives. Refer questions to the Bursar's Office, New York State Awards, 260 Day Hall or the Fellowship

Office, 116 Sage Graduate Center.

Applications for Graduate School Summer Fellowships and Graduate School
Summer Tuition Awards should be avail-

able in early March.
Check the Fellowship Notebook at your graduate faculty representative's office for information on the awards whose deadlines are listed below. Generally, applications must be obtained

directly from the agency concerned.

Mar. 1: Rotary Foundation Graduate
Fellowships for International Understanding—for applicants between 18 and
28 years of age for study or research in countries/territories in which there are Rotary clubs; applications must be sub-mitted through a Rotary club in the district of the applicant's legal resi-

Mar. 15: Ambassade de France Bourses Chateaubriand—for doctoral candidates in the social sciences and business administration who are preparing dissertations on contemporary France; applicants must be fluent in

Apr. 15: Kinley Memorial Fellowship
—for advanced study in the U.S. or
abroad in the fine arts: architecture (design or history), art or music

Sponsored Programs

Day Hall, 6-5014, wishes to emphasize that the information in this column is intended for post-doctoral research un-less otherwise indicated

DEPARTMENT OF ENERGY - SUP-PORT OF ADVANCED COAL MINING/ PREPARATION SYSTEMS RE-SEARCH AT COLLEGES AND UNI-VERSITIES

The office of Coal Mining in the Department of Energy is interested in research proposals from colleges and universities for research on advanced systems concepts related to coal mining and preparation. The purposes of this overall effort are to investigate novel concepts for improved coal mining and preparation systems, to furnish technical support in the education of graduating seniors in accredited baccalaureate courses in coal mining/preparation research, and to explore new approaches to coal production. The Office of Coal Mining/Department of Energy is particularly interested in research related to coal mining preparation from the standpoint of mining/preparation systems. That includes all aspects of the proposed concept including hardware configurations system output/throughput, environment and worker health and safety, econom-

and worker health and safety, economics, and regulatory impact.

It should be emphasized that the Department's interests are in useful systems concepts rather than in devices or gadgets. Within these topical objectives, the Department is also interested in the following generic goals: (1) To promote university activities in research related to the mining and preparation of related to the mining and preparation of coal resources. (2) To stimulate innovative research projects related to the above topics. (3) To stimulate research efforts on coal among universities, which may lead to results useful to research and development efforts of industrial and other organizations. (4) To encourage graduating seniors to un-dertake related research or to continue their work in this area. (5) To enhance the training of university students

The Office of Sponsored Programs, 123

ay Hall, 6-5014, wishes to emphasize the information in this column is stended for post-doctoral research unsess otherwise indicated

through demonstration of the importance of the application of their education in a system as opposed to narrow context. (6) To expand the base of fundamental knowledge needed to increase the use of each exercise.

increase the use of coal resources.

Proposals submitted in response to this NPI must be received no later than April 30, 1981. One year grants are expected from this solicitation, and sup-port for any one award will not exceed

DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT, OFFICE OF POLICY DEVELOPMENT AND RE-SEARCH

Will offer awards in 1981 to Ph.D. candidates for the conduct of disserta-

tion research.

PD&R's new Housing Research Data
Center initially will contain the large
data base generated from the conduct of
the Experimental Housing Allowance
Program (EHAP). All dissertation
grants awarded in 1981 will require the use of these data.

It is expected that up to 10 grants will be awarded on a competitive basis to doctoral candidates. The amount of each grant is \$7,000 plus an amount up to \$3,000 for the use of computer time at the data center. Support will continue for one year. Training at the data center will be available and travel to periodic conferences will also be provided.

The deadline for receipt of all applica-tions is April 15, 19S1. Awards will be announced on June 1, 1981

DEADLINE REMINDERS PHS New Research Grant Applica-tions - March 1, 1981. Please submit to

the Office of Sponsored Programs by February 20, 1981, to permit timely review and avoid extra postage charges.

NATIONAL SCIENCE FOUNDATION RESEARCH IN SCIENCE March 9, 1981.

DEPARTMENT OF ENERGY - AD-VANCE COAL RESEARCH

NEW YORK STATE COUNCIL ON THE ARTS

March 2, 1981. Only one deadline.

JAPAN UNITED STATES FRIEND-SHIP COMMISSION March 1, 1981.

AMERICAN COUNCIL FOR LEARNED SOCIETIES
Travel Grants for Humanists. March

Biological Stress - February 27, 1981. Human Nutrition - February 27, 1981 Animal Health Problems - March 20,

Barton Blotter

A color TV, speakers and other stereo equipment valued at \$2,384 were re-ported taken from 126 McFadden Hall ast week. In other thefts on campus typewriter valued at \$900 was taken from Gannett Clinic and four fire ext-Gannett Clinic and four fire extinguishers costing a total of \$91 were taken from various sites on campus including Mary Donlon Hall and nearby Toboggan Lodge.

However, in terms of numbers there were far fewer thefts on campus than the previous week, according to the Morning Reports published by the Department of Public Safety.

While thefts and burglaries dominated the reports, other incidents included a sprinkler system set off in Dickson Hall, apparently triggered by a fire in a

apparently triggered by a fire in a garbage can.

Also three students were caught carry-ing a Cornell barricade into North Cam-pus 5. No charges have yet been filed. Also, some \$60 worth of meat was

reported stolen from the kitchen in North Campus 7.

People

George T. Milkovich has been elected professor in the Department of Personnel and Human Resource Management in the State School of **Industrial and Labor Relations** Milkovich is one of the nation's outstanding scholars in the field of personnel-human resource management. While at the University Of Minnesota, Milkovich was honored three times with the Outstanding Teaching Award (1972, 1974, 1976) an annual award given by Industrial Relations graduate students.

Harold "Chappy" Menniger has been appointed coordinator of career planning and placement in the Office of Instruction of the State College of Agriculture and Life Sciences. Menninger will be responsible for coordinating career planning and placement programs for students and alumni of the college in cooperation with faculty and the University Career Center. A specialist in career planning, Menninger comes from the University of Southern Maine at Portland, where he was associate director of counseling and career development the past four years. Earlier he served as associate dean of students and associate dean of student program development at USM, from 1970 to

George H. Hildebrand has been elected the Maxwell M. Upson Pro-

fessor of Economics and Industrial Labor Relations Emeritus at Cornell University. Hildebrand came to Cornell in 1960. Before that he was on the faculty of the University of California at Los Angeles for 13 years. From 1969 to 1971, Hildebrand served in Washington, D.C. as the deputy undersecretary of labor for international labor affairs. From 1961 to 1967, he was a member of the board of directors of the Social Science Research Council, representing the American Economic Association. Hildebrand is the author of six books and more than 40 articles in professional jour-nals. His latest book, "Francis Marim Smith: Borax Pioneer," is now in press.

Wayne Robert Knapp, who teaches agronomy, and Murray Brian McBride, who teaches soil chemistry, both in the department of agronomy of the State College of Agriculture and Life Sciences, have been elected associate professors with tenure. Knapp's area of expertise is crops science, particularly grain, protein and oil crops. He is recognized nationally as having established "one of the most outstanding and productive research-extension programs" in the Northeast. McBride, who came to Cornell in 1975, is a leading authority on the binding, mobility, and structure of inorganic ions and organic

molecules on clay surfaces. Through his expertise in clay mineralogy and soil chemistry, he has made great strides in the problems of soil fertility and environmental pollution.

Robert H. Smiley has been elected associate professor with tenure in the Graduate School of Business and Public Administration. Smiley, an applied microeconomist, is a specialist in in-dustrial organization and government regulation. He received his doctorate in 1973 from Stanford University, came to the B&PA School as an assistant professor in 1973 and was promoted to associate professor without tenure in 1977.

Christopher J. Nichols, a senior at the State College of Agriculture and Life Sciences has been named the "Student Agricultural Engineer of the Year" by the American Society of Agricultural Engineers. The honor is accompanied by the 1980 John G. Sutton Memorial Award, which consists of a plaque, a \$100 cash prize, and a \$125 travel allowance for the winner to attend a national meeting of the society. A special plaque also has been awarded to Cornell's department of agricultural engineering for display.

Agricultural College Reports Research Advances

Projects Aid Farmers, Food Processors

wasps in a laboratory setting, uncovering the secret of how bees avoid pollinating some apple varieties, and improvements in extending the storage life of fresh fish and cabbage were among numerous research advances made last year by scientists at the State College of Agriculture and Life Sciences,

Because yellowjackets are now the number one stinging insect problem encountered each summer in the eastern United States, pure venom from the wasps is needed to treat people who are allergic to the sometimes deadly sting of wasps. The successful rearing of four species of yellowjackets at Cornell brought venom collection closer to a reality. The most bothersome, the European yellowjacket, is among species now being raised in captivi-

In other developments, a new ready-to-cook poultry product made of pure, boneless meat for chicken burgers, among other uses, made its debut for commercial production. This marks the 40th convenience product developed by Cornell food

Scientists.
A vital biochemical role of selenium, a trace element, was de-termined. This reinforces why selenium is an essential nutrient in its own right in humans and animals. Naturally present in soils, this chemical element is picked up by plants and thus enters the food chain. Aside from triggering serious nutritional disorders in animals, selenium deficiency is now sus-pected of causing a fatal heart disease among children in mainland

On the energy front, a four-year project was launched to enable dairy farmers across the country to meet most of their energy needs for their own farm operations. Production of alcohol, methane, and hot water is the focal point of the demonstfation project now being carried out on a modern commercial dairy farm near the Cornell

Many kinds of waste organic materials, such as wood chips, corn stalks, peanut hulls, and rice straw, can be made to produce a gaseous fuel for internal combustion engines. Using such fuel from wood chips and charcoal, Cornell researchers successfully operated a typical gasoline engine. Work was stepped up on other energy projects involving solar energy for greenhouse operations, wind power for production of hot water, and an air-Supported greenhouse to recover

Successes in rearing yellowjacket heat from warm wastewater coming out of steam-powered electric

> Efforts to produce methane from crop waste materials such as wheat straw and corn stalks are proceeding in high gear, while efficient ways to use methane as a fuel for electric generators and water heaters are being sought.

> For energy-conscious consumers, researchers developed eleven new interior window coverings that are much more efficient in stopping heat from escaping through home windows than are familiar draperies, curtains, blinds, shades.

While steps are being sought to correct the dilemma, Cornell pomologists have pinpointed the easons why McIntosh apples in long-term storage sometimes turn soft and mealy in springtime. Harvesting the fruit before it begins to ripen on the tree, and removing ethylene (a gaseous plant hormone given off by the fruit during storage) can keep the apples as crisp as they are in the fall. Simple means for growers to determine the onset of fruit ripening just before harvest and to eliminate the ethylene gas are now under study.

Using storage techniques somewhat similar to those for apples, a research team is perfecting ways to keep cabbage fresh until spring time, an effort to make New Yorkgrown cabbage available the year round. Pursuing the same goal, another research team hopes to develop new cabbage varieties which store well under less exacting condi-

Modified atmospheres also were found effective in extending the storage life of fresh salmon and red hake to at least four weeks-long enough to ship fresh fish to any part of the country and to overseas mar-

An unusually tall-growing Russian weed called "giant hogweed" has sneaked into many parts of New York State, posing a menace to public health. Physical contact with the plant results in painful blisters on the skin. Apparently, New York is the only place in the country where this weed is establishing a foothold, but how it got here from its native land puzzles botanists.

Another weed pest, which could become a serious threat to agricultural crops, is on the march across the State. Called "johnsongrass, the weed has been spotted in many corn fields in at least 12 counties, and is spreading.

Aside from battling a host of noxious weeds, farmers often face elusive aerial invaders, particularly red-winged blackbirds. In summer, they zero in on corn as their favorite food in areas near their teeming roosts. Now farmers are better prepared to deal with these pesky birds because Cornell researchers can accurately predict just when the aerial attack occurs in corn fields. This makes bird control measures more timely and effective.

Farmers can look forward to having new crop varieties developed by Cornell scientists. A new high-yielding variety of corn, named "Cornell will be a boon to growers in areas where growing seasons are short. Also unveiled was a new alfalfa variety named "Oneida" which has high resistance to a rootdestroying disease, called 'Phytophthora root rot." A much improved wheat variety named "Houser" went into production on a large scale in the fall 1980. "Purcell" is an even newer wheat that will be ready for general use

beginning this fall.
Other plant scientists at the College made major advances in flower production. For example, production of greenhouse-grown roses in winter can be doubled and even tripled in some cases.

The spectacular jump in yields resulted from growing roses under high-intensity discharge (HID) lamps in a greenhouse atmosphere containing a healthy dose of carbon dioxide, an element vital for plant

A new method of producing consistently high-quality chrysanthemums at lower production costs was developed. The technique calls for rooting mum cuttings under HID lamps in a "growth room" before putting them out in the greenhouse.

that are shipped from warmer parts of the country Other researchers found that

many kinds of exotic tropical plants can be grown directly from seeds. Most houseplants now available in the northern United States are propagated from plant cuttings produced in the South and California. The technique works under commercial as well as home conditions.

Agricultural engineers at Cornell developed a device that can tell when cows are ready for conception. Called the '"electrical conductivity probe," the device is expected to be an important aid to farmers.

Cornell atmospheric scientists are looking to the sun for clues to weather patterns on Earth. Based on new experimental weather forecasting techniques that compare sunspot activity and weather data from the past, they are predicting a cluster of harsh winters ahead.

Brief Reports

Unrooted cuttings are much

cheaper than already rooted ones

Starr Scholarship **Funds Distributed**

Carolyn von Hafften, a firstsemester graduate student, and James Bolback, a second-year grad-uate student, have received a total of \$3,000 in scholarship funds from the university's newly established Starr Foundation fund.

Awarded on the basis of merit and need for students studying China and Japan, the funds are being used during the current term. The announcement of the awards was made by T.J. Pempel, director of the China-Japan Program under whose auspices the Starr monies at Cornell are administered. The program received approximately \$150,000 in stocks last year from the Starr Foundation of New York City

The foundation was incorporated in 1955 with funds donated by the late Cornelius Vander Starr, founder of a network of worldwide insurance operations known as American International Companies.

Essay Competition Has \$500 Prize

The deadline for entries in The Mario Einaudi Undergraduate Essay Contest in European Studies, which carries with it a \$500 prize, is April 15.

Sponsored by the Western Socie-

ties Program of the Center for International Studies, the contest is open to all Cornell juniors and seniors. Contestants must write approximately 50 pages on a topic concerning the cultural, social, economic or political problems of contemporary importance in Western

Europe.

Interested undergraduates should contact their department chairperson or undergraduate adviser. Contest details also also may be obtained by calling the program office in Uris Hall, 256-6225.

The essays should be delivered to James A. Boon, associate professor of anthropology, at 320 McGraw by April 15. The winner will be announced on May 1.

Scholarship Honors Helen Vandervort

A scholarship fund to honor a founder of the Human Ecology Alumni Association has been established by Cornell University.

Helen Bull Vandervort, class of 1926, has served the State College of Human Ecology for 55 years in various capacities. She has been a member of the Board of Directors of the Alumni Association since its establishment and has served as its president. A long-time member of the college's Advisory Council, Vandervort also co-chaired the college's 50th anniversary fund drive which raised more than \$300,000.

She has been instrumental in establishing student financial aid and emergency funds, and private funds for special programs. In Albany, her efforts helped to result in the north wing addition to Martha Van Rensselear Hall.

Fellowships Offered On Southeast Asia

The Cornell Southeast Asia Program is accepting applications for Foreign Language and Area Studies Fellowships for intensive Indonesian language study to be held at Ohio University from June 22

through Aug. 29. The deadline is

These fellowships are open to all U.S. citizens or permanent residents and cover tuition up to \$988, plus a stipend of \$650 for the 10 weeks of instruction. Forms and further details are available at the offices of the Southeast Asia Program. 210 Uris Hall

Development Names Two as Directors

Gail A. Weinstein and David Schwartz have assumed director-ships in the Office of University Development.

Weinstein, now director of records and research in the development office, was an administrative aide in the College of Arts and Sciences for 18 months before assuming her present position.

She replaces Tom Wozney, who is now in private business in California after earning a master's degree at

Cornell in May.

Schwartz is the director of real estate and real property gifts. He was a partner in the Ithaca law firm of Yanof, Schwartz & Stumbar before joining the development

In his new position at Cornell, Schwartz will seek to promote gifts of real estate and real property the university. A number of gifts have come to Cornell recently in the form of land or other non-traditional gifts-in-kind.

Weinstein was an administrative aide and research bibliographer in the Museum of Applied Science Center for Archaeology at the University of Pennsylvania Museum for two years. She holds a master's degree from Penn, a bachelor's degree from Wilson College, and is a doctoral candidate in classical archaeology at Penn.

Schwartz was engaged in the general practice of law for nearly 10 years, with emphasis on real estate, business consulting, juvenile and matrimonial law. He has been a patent examiner at the U.S. Patent Office and a self-employed home builder.

Students to Examine Business

What are the rights and responsibilities of business and govern-ment? Some 25 political economy students here will examine this Question as part of the 1981 General Motors Intercollegiate Business Un-derstanding Competition.

Started in 1976 to encourage creative student thought about business in America, the program this year involves government and political science students at 14 universities and colleges. For the first time, two competitions will be sponsored: one for graduate and another for undergraduate students.

Cornell's undergraduate student team, under the coordination of Robert H. Frank, associate professor of economics, will be competing for a top prize of \$7,000 for the university

The schools with which Cornell is competing are: Brown University, Columbia University, Dartmouth College, Duke University, Harvard University, Johns Hopkins University, Northwestern University and Vanderbilt University.

Team entries will consist of an oral presentation and a written treatise on the topic. The develop-

ment of an original research instrument to survey attitudes of business persons toward government and government officials toward business is a major portion of the

A panel of representatives from business, education and government will visit here in April to review the students', oral presentation. Written submissions will be judged in De-

In May, team representatives will go to Detroit to present their ideas to senior GM management and to share in awards totaling \$19,500.

Brief Reports

Hotel School Plans Executive Program

Record numbers of tourism ex-ecutives from all over the world are expected to attend the Center for Professional Development at the School of Hotel Administration this

A total of 88 specialized courses will be offered for periods of one week to three weeks, depending on the nature of the subject. More than 550 men and women from 77 countries attended the summer program last year. This year classes will be conducted from June 15 through July 31.

All courses are designed for the working professional. No students will be allowed to enroll. Fees and other details may be obtained by writing to the Center for Professional Development, School of Hotel Administration, Cornell University, Ithaca, N.Y. 14853. Calls may be made to the center's

director, Donal Dermody: (607)

Courses offered this year cover operations and administration, human-resources management, accounting and financial management, restaurant (F&B) management, properties management, communications,

information/computer systems and marketing and tourism. Some financial assistance is

available through the Hotel School. Applications may be submitted through June 1, with earlier appli-cants getting the best choice of specific courses and accommoda-

Sailors Sought For Cornell Team

The sailing team is seeking experienced sailors to try out for the team.

A meeting of new members is scheduled for 3 p.m., Friday, Feb. 20 in the Robison Room of Schoellkopf Hall. According to Coach Lawrence Bart, top sailors in dinghies and large-boats (30 ft. plus) are needed. Also, top women sailors are needed to compete in women's events and with the coed

In addition, Bart said he is looking for a volunteer assistant coach to conduct small sailboat practices. The candidate, preferably a graduate student or staff member, should have extensive small sailboat racing experience at the intercollegiate and/or national levels. Interested persons should send both personal and sailing resumes to: Lawrence Bart, Head Coach Sailing, Teagle

Cornellians Picked In Intern Program

Two university students are among the eight graduate students selected state-wide for the New York State Assembly Intern Program's 1981 legislative session.

They are David E. Kalinski, a law school student, and Alister W. Reynolds, a student in the Graduate

nolds, a student in the Graduate School of Business and Public Administration. Each receives a \$7,500 stipend. Kalinski is from Latham and Reynolds from Ithaca.

After a comprehensive orientation on state government starting at the Capitol on Jan. 5, the interns were assigned to projects which

nomic development studies, environmental policy analysis and budgetary analysis.

The program, initiated in 1976, by the Assembly Intern Committee, has offered an opportunity for research and government participation to more than 30 graduate students in the past four years. At the conclusion of the program nearly one-third of the scholars have continued their work as staff with the New York State Legislature.

Traffic Interrupted On Central Avenue

Through traffic on Central Avenue between Campus Road and University Avenue on campus will be interrupted for approximately two weeks beginning Monday, Feb. 23.

Similar disruptions to traffic on Central Avenue will occur periodically this spring as construction on the Uris Library Addition progresses.

Two-way traffic will be permitted on Central Avenue from Campus Road to the Uris Library service area, and from University Avenue to Morrill Hall. Vehicles may enter Central Avenue from University Avenue and turn around at the rear of Morrill Hall. Similarly, vehicles may enter Central Avenue north of the intersection with Campus Road, turning around at the Uris Library

service area.
Parking for automobiles will be available on Central Avenue. Large vehicles are discouraged because of maneuvering difficulties

Plans for supplemental parking have been made to accommodate

persons who park in the area.

Persons needing more information should call the Office of Transportation Services at 256-4628

Faculty Meeting Lacks an Agenda

The University Faculty meeting scheduled for yesterday was can-celled for lack of agenda, according to the Office of the Dean of Faculty. The next regular meeting is scheduled for Wednesday, May 20.

Academic Appointment Manual Available

The Academic Appointment Manual, which contains information on the employment of faculty, is available in all departmental offices and at the reference desks of Olin, Mann and the ILR libraries.

Chinese Scholar To Give Lecture

Chinese psychologist Xing-chu Zeng, professor at Shanghai Normal University, The People's Republic of China, will give a public lecture, "Some Aspects of Early Learning and Development," at 4:30 p.m. Monday, Feb. 23, in Kaufmann Auditorium of Coldwin Smith Hell Auditorium of Goldwin Smith Hall. His talk is co-sponsored by the China-Japan Program and the De-partment of Human Development and Family Studies.

Professor Zeng's work is dis-cussed in an article on the rebuilding of Chinese psychology in the aftermath of the Cultural Revolution in the August 1980 issue of the magazine "Psychology Today." The author, psychologist Howard

Gardner writes:

"Zeng has carried out a remarkable set of studies with his young daughter and also with 10 other young children. He taught his daughter to read both English and Chinese before the age of 3, providing her with a reading vocabulary that was more extensive than her speaking vocabulary and, most amazingly, permitting her to learn the meanings of words in one language through her ability to read the other. Before she was 5, Zeng had taught his daughter to add, subtract, multiply, and play the

piano.
"In addition to demonstrating considerable pedagogical ingenuity. Zeng was able to outline his methods of shaping and task analysis so that they could be adopted by other individuals working with other subjects. Moreover, he coupled this impressive demonstration with a plausible critique of the Piagetian point of view.

Greek Philosophy Expert to Give Talk

Myles Burnyeat, a fellow of Robinson College of Cambridge University and visiting professor of philosophy at the University of Cali-fornia, will lecture on "The Sceptic in His Time and Place," at 3:30 p.m. Friday, Feb. 27 in the Hollis Cornell Auditorium, Goldwin Smith Hall, Cornell University.

Burnyeat is recognized as one of the leading English-speaking stu-dents of Greek philosophy. He has published work on Plato's and Aristotle's ethics and theory of knowledge.

He has recently written on the history of Greek scepticism and its influence on the development of modern philosophy.

Burnyeat has been lecturer and

senior lecturer in philosophy at University College in London and has held visiting appointments at Princeton University, Harvard University and the University of Pittsburgh

In 1979 Burnyeat delivered the Dawes Hicks Lecture On the History of Philosophy before the British Academy.

His lecture here is sponsored by the Committee on University Lectures and by the departments of philosophy and the classics.

Professor-at-Large Will Give Lecture

Dutch ecologist C.T. de Wit, an Andrew D. White Professor-at-Large, will give a public lecture on "Food and Energy" at 4 p.m. Tuesday, March 10, in 101 Bradfield Hall on the Cornell campus.

On campus March 9 through 21 as

a professor-at-large, de Wit will hold office hours at 709 Bradfield Hall for informal discussions with students and faculty. He will be available by telephone at 256-3267. He will also give specialized sem-

inars, one on his work in the Sahel region of Africa. This will be part of the International Agriculture Development seminar series sponsored by the New York State School of Agriculture and Life Sciences at Cornell.

De Wit is professor of theoretical and production ecology at the State Agricultural University of the Netherlands at Wageningen. His work in the field of computer simulation has made major contributions toward

the understanding of agriculture and ecological systems, such as crop growth. He has also studied energy-labor relationships in agriculture and agricultural production in various countries, including Israel, Indonesia and Africa.

The Story of Babar Is Set to Music

The Cornell Symphony Orchestra will present "The Story of Babar" set to music at 3 p.m. Saturday, Feb. 28, in Bailey Hall. All proceeds will benefit the Tompkins County Arts Council.

The program will also include M.
Ravel's "Mother Goose Suite" to be
performed by the Ithaca Ballet.
"The Story of Babar" musical
score is by F. Poulenc with Richard
Driscoll perpetting Associal

Driscoll narrating. A special choreography has been created by Lavinia Reid in which members of the Ithaca Ballet and Ballet Guild will perform.

Tickets at \$2.50, \$1.50 for students and children, will be available at the Tompkins County Arts Council in the DeWitt Building; the Isle of You; Willard Straight Hall.

Sardis to Be Topic Of Ramage Lecture

Recent excavations at Sardis, once a major city in western Turkey and the capital of the Lydian Em-pire, will be the subject of a lecture by Andrew Ramage, associate professor of the history of art here, at 8 p.m. Wednesday, Feb. 18, in the Hollis Cornell Auditorium of Goldwin Smith Hall.

Ramage is also associate director of the Cornell-Harvard Sardis expedition, a project that began in 1958. Sardis is a site where many significant archaelogical contribu-tions to the knowledge of the arts and culture of antiquity have been

Ramage's lecture is sponsored by Cornell's Program in Urban and Regional Studies and the Department of the History of Art and Archaeology.

Fitness Class Is Being Offered

A coeducational fitness and conditioning class is being held from 5 to 6 p.m. Tuesdays and Wednesdays in the One World Room, Anabel Taylor

The class is open to all faculty, students and employees. Registration forms are available at Teagle Hall or participants can register at the first class they attend. Cost is \$15 for the semester. Class instructor is Nancy Cool.

-SAGE CHAPEL-

Feinstein to Talk At Convocation

Howard M. Feinstein, adjunct associate professor of psy-chology, will speak at the Sage Chapel Interreligious Service at 11 a.m. Sunday, Feb. 22. His topic will be "Faces from the

A 1951 graduate of Cornell, Feinstein received his M.D. from the Cornell Medical College in 1955 and his Ph.D. in American Intellectual History from Cornell in 1977. He received post graduate training in psychiatry at both Cornell and Harvard University, 1956-61.

Feinstein, who is both a practicing psychiatrist and an historian, has had numerous articles published in both psy chiatric and historical journals such as the American Journal of Psychiatry, Journal of the His-tory of Ideas and the American Quarterly.

His academic appointments have included a teaching fellow in psychiatry, Harvard Univer-sity (1959-61); research associate in social psychiatry, Cornell (1962); clinical instructor in psy-chiatry, Upstate Medical Center, Syracuse (1963-64); and visiting scientist at Tavistock Centre, London, England (1978-79).

Music will be provided by the Sage Chapel choir under the direction of acting choirmaster, David Conte. Stephen May is acting organist. Donald R.M. Paterson, university organist and Sage Chapel choirmaster, is on leave this term.

President Addresses Cornell Employees

President Frank Rhodes spoke with Cornell employees Tuesday about the upcoming union election and other matters of concern. His talk will be repeated on television, Ithaca Cable Channel 13, at the following times: From 5 to5:30 p.m. Friday, 10:30

to 11 a.m. and 5 to 5:30 p.m. Saturday, 5 to 5:30 p.m. Sunday and 6 to 6:30 p.m. Monday.

Garden Plot Group To Hold Meeting

The Cornell Garden Plot Committee will hold an organizational meeting at 8 p.m. Tuesday, Feb. 24, in 114 Ives Hall.

Anyone interested in working on the committee should attend this meeting. For further information call Eileen Driscoll at 256-3228.

-Rev. Richard Tormey-

A memorial mass for the Rev. Richard Tormey, Catholic chaplain here from 1960 to 1968, is scheduled for 5:15 p.m. Saturday, Feb. 21, in Anabel Taylor Auditorium. Father Tormey died Wednesday, Feb. 11, in Rochester, of cancer. He was 64 and pastor of St. Mary's R.C. Church in Bath at the time of his death.

During his tenure at Cornell he ecame particularly close to the football team, traveling with the team to all away games and cele-brating mass for team members early Saturday mornings before home games.

When he left Cornell he became editor of The Catholic Courier-Jour-nal, the official publication of the Diocese of Rochester, a post he held until 1971 when he was named pastor of St. Steven's R.C. Church in Geneva.

For the 13 years prior to coming to Cornell he conducted a Sunday radio program, "The Morals Behind the Headlines," on WHAM in the Rochester area. More recently he broadcast a program "Magnify the Lord," from Hornell.