

CORNELL CHRONICLE

No. 25

Thursday, March 31, 1977

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The basics of small animal care, including what occurs during a routine exam such as this one, will be explained by Cornell veterinary students during the College of Veterinary Medicine's annual open house.

Veterinary College Plans Open House

cattle, other livestock — even zoo puppies, a demonstration of how a animals — are reaping the benefits of veterinary science, which today includes such specialities as surgery. internal medicine, pathology and stethescope and observe surgical

The State College of Veterinary Medicine invites the public to discover the diversity in veterinary medicine during its 11th annual Open house from 9 a.m. to 4 p.m. Saturday, April 16.

Of special interest to the farm animal owner will be a cow outfitted with a special window that allows visitors to look into its rumen (stomach), a demonstration of the Instruments used to deliver calves and a discussion of lameness. nutritional needs and general dairy and beef herd health.

Equine Research Park, where researchers are studying reproduca new training track. Other features

veterinarian examines a dog, and opportunities to watch chicks hatch. procedures. Exhibits are also being planned on zoo animals, animal behavior and pet obedience.

Most exhibits are designed for adults and children over 10. Younger children and large groups of children should be adequately chaperoned.

The open house, organized by the Cornell student chapter of the American Veterinary Medical As-Canada each year. Veterinary students will be available during the free meal. about animal health and about the many careers in veterinary medicine.

tion, nutrition and locomotion using Veterinary students and signs will direct visitors to the exhibits.

Cornell Researchers Find Rings Around Uranus

discovery of the planet Pluto in

the first major structures in the aboard the NASA-Ames Research 1.6 billion kilometers (a billion miles)

Kauber to Investigate Wriston Incident

Wriston cut short the session dur- they were observing the temporary Kauber confirmed yesterday that her ing what would have been the se- disappearance (occultation) of office is investigating possible viola- cond to last question he was to faint star behind Uranus. The extions in connection with incidents at answer. He was interrupted on pedition was carried out by the the end of a hour-long public numerous occasions with outbursts Ames Center's Kuiper Observatory question-and-answer session March from members of the audience who project team, headed by Carl 22 with Citibank chairman Walter were there protesting Citibank's Gillespie, expedition manager. The Wriston at the Graduate School of business operations and invest- observations were made at 12,300 Business and Public Administration ments in South Africa. He was also meters (41,000 feet) altitude, 2,000 (B&PA). The investigation is being interrupted by the presentation of a conducted at the request of H. mock award for "outstanding ser-Justin Davidson, dean of B&PA, she vice to white supremacy," made by said (also, see letter to editor on two persons in white-hooded KKK

Rings orbiting the planet Uranus Cornell University researchers flying the outer solar system. It is almost solar system to be found since the Center Kuiper Airborne Observatory, beyond Saturn, until now the only Uranus is the seventh planet out ringed planet, and is unique in "lying 1930 — have been identified by from the Sun, one of the giants of on its side" with its rotation axis almost in its orbit plane.

> James Elliot, senior research as-Radiophysics and Space Research, assisted by graduate student Edward Dunham and computer programmer Douglas Mink, made the discovery on March 10 while km (1,200 miles) southwest of Australia over the southern Indian

Elliot and his associates have in-

Campus Council Elections Petitioning Begins April

fice at 103 Barnes Hall.

William D. Gurowitz, vice president for campus affairs, urged Day Hall not later than 5 p.m. and Board of Trustees.

scheduled to start the end of this qualify as candidates for the Council.

running for the newly established member council. There will also be 100 employe signatures. Cornell Campus Council and seven faculty members on the Counemploye and student positions on cil elected by the faculty and five ex- Campus Council Charter, which is the University Board of Trustees will officio members of the Council. Two still being drafted, will be available be available Monday, April 11, will be executive staff members apthrough Wednesday, April 20, at the pointed by the president and one main desks of the three campus un- student, one employe and one ions and in the Dean of Students Of- faculty member of the Cornell University Board of Trustees.

Petitions must be filed in 133 members of the Cornell Community Wednesday, April 20. Students to consider running for the Council must have at least 50 student signatures and employes must have The mail-ballot election, 25 employe signatures in order to

month, will fill seats for five un-dergraduate, two graduate, and two must have 200 student signatures

Petitions for persons interested in employe members of the 21- and employe candidates must have

Gurowitz said copies of the

Insecticides In Food Bug Entomologists

Ten to 20 per cent additional insecticide is used on fruits and vegetables to meet new federa standards for external appearance and to reduce the incidence of insects on food.

And for these questionable benefits, we are risking more food contamination with pesticides, increased food costs and continued environmental problems.

There is a choice between evils and it is not clear the governmen has selected a strategy that deals

This is a conclusion of a study by David Pimentel, professor of en tomology, and Elinor Terhune, former post-doctoral associate published in the March issue of BioScience. William Dritschild David Gallahan, Nancy Kinner

Continued on Page 2

Take Faculty or Staff To Dinner, New Plan

If a student at Cornell suspects a will be the 5th. sociation, attracts more than 7,000 certain faculty or staff member has

scheduled for the 14th. In May it after-dinner discussions.

The guests will receive their people from throughout the U.S. and been unusually nice lately, it may be meals free through the student's because that person is looking for a guest bonus on their meal contract. Guests will not be asked to sing for Word is getting around that their suppers but only talk. The idea Cornell Dining is sponsoring a bring- is to increase the interaction a-faculty-or-staff-member-to-dinner between students, faculty, teaching Visitors are requested to park in night on the first Thursday of each assistants, staff and administrators. the "B" lot adjacent to the college. month this semester. Because of the In this vein, coffee and snacks will spring recess, the dinner in April is be provided in designated areas for

Insecticides Riskier Than Bugs

Continued from Page 1

Donald Nafus, Randall Peterson, Nasser Zareh, Jim Misiti and Oren Haber-Schaim, all students at the State College of Agriculture and Life Sciences, are co-authors.

Pimental said that insects and insect parts, all non-pathogenic to

Power to be Shut Off

Electric power to the endowed campus of Cornell University is scheduled to be shut off for about four hours from 8 a.m. to noon Saturday, April 2. The shutdown is needed in order to complete work on the new Kite Hill Substation.

The shutoff will affect telephone service on the entire campus. There will be no WAT-SBOX service and, although it will be possible to use phones for on-and off-campus calls, there will be no lights or ringing to signal incoming calls on phones

sibility of producing these products insects is harmful. without insects.

true for ground products such as apple butter, apple sauce, peanut but- foods." ter and tomato sauce.

ists in the United States against the presence of any insect or insect Discontinued parts in our foods, the Food and Drug Administration (FDA) has set For Recess standards to keep them at a minimum," Pimentel said.

have become progressively more recess at the University stringent because of this prejudice. reduced to eight.

Pimentel suggested that the zero tolerances were established, dominant consideration of the FDA many foods, such as raspberries and in determining these standards was strawberries, would be totally the state of insect control eliminated because of the impos- technology and not because eating

"No one has demonstrated that 'As a result, everyone consumes eating small plant-feeding insects, unseen insects," he said. "But in dead or alive, poses any health most cases it would require a hazard," said Pimental. "On the conmicroscope and a scrupulous search trary, because insects have a high to detect them. This is especially protein content, they may actually contribute to the nutritional value of

Because a strong prejudice ex- Evening Bus

Evening bus service on campus He added that the limitations will be discontinued during spring

David Brown, director of tran-For example, during the 1930's, "a sportation, said bus service will end guide to repulsiveness" was 40 leaf the evening of Thursday, March 31, miners per 100 grams of spinach. In and resume Monday night, April 11. 1956, the level dropped to nine per Present plans are to continue the 100 grams, and in 1974 it was service to the end of classes on May

Occultation Reveals Rings

ferred the presence of five rings orbiting Uranus, all of them in a narrow belt 7,000 km (4,400 miles) wide, lying 18,000 km (11,000 miles) out from the cloud tops of the planet. The five rings appear to consist of four thin inner rings, perhaps 10 km (6 miles) across, that follow nearly circular orbits around the planet, and one thick outer ring, about 100 km (60 miles) wide, whose orbit may not be exactly circular

Observations of the Uranus occultation made independently at Perth, Australia by Robert Millis of Lowell Observatory and by astronomers at Capetown, South

mile) in diameter. They have never various discoveries. before been observed because the

delta and epsilon.

BRIEF DISAPPEARANCES OF STAR **OBSERVED HERE** STAR STAR URANUS NORTH POLE RING 10,000 KM

Africa agree with the interpretation which the observations were made, of at least five rings surrounding is a highly modified C-141 aircraft, and is a national facility available to The rings are considerably astronomers. Named for pioneer smaller than those encircling Saturn. planetary astronomer Gerard P. Elliot's data indicate that they are Kuiper, who discovered Uranus' fifth probably made up of fragments moon, it carries the world's largest smaller than two kilometers (one airborne telescope, and has made

For the Uranus flight, because of light reflected from the planet is suf- its mobility, the C-141 provided the ficiently bright to obscure the lesser best solution. Flying far out over the reflections from the rings under nor- southern oceans, it flew far enough mal viewing conditions, Elliot said. south to be well within the shadow Elliot has named the rings for the of Uranus and far enough into the first five letters of the Greek Earth's night hemisphere to see ocalphabet - alpha, beta, gamma, cultations of the rings on both sides, as well as to be above any clouds. Ames' Kuiper Observatory, from This combination of factors was not possible from any single groundbased observatory, and in fact several ground observatories were clouded out.

> Viewing of the second ringed planet was done through the Kuiper Observatory's 91 cm. (36 inch) telescope, stabilized by gyroscopes and a tracking system that compensates for change in altitude of the plane during flight. The C-141 flew above 75 per cent of the Earth's atmosphere.

> Data were displayed for the Cornell observers on a television screen, and variations in intensity of the light were recorded on magnetic tape and plotted automatically on graph paper

> Elliot and his associates observed the occultation of the star SAO 158687 by Uranus to learn the planet's precise diameter and to study the composition and temperature of its atmosphere by recording changes in the light intensity from the star as it passed near and then behind the planet. The discovery of the planet's rings was an unexpected benefit.

Approximately 40 minutes before the star was scheduled to pass Continued on Page 7

Job Opportunities At Cornell University

The following are regular continuing full-time positions unless otherwise specified. For information about these positions, contact the Personnel Department, B-12 Ives Hall. Please do not inquire at individual departments until you have contacted Personnel. An Equal Opportunity

Individuals in lay-off status will be given preference referrals.

eindicates new jobs in this week

(sh) indicates shorthand required POSITION (DEPARTMENT)

CLERICAL POSITIONS

Administrative Aide, A-20 (Music)

Executive Secretary, A-19 (Univ. Dev. (N.Y.C. Regional Office) (sh))

•Administrative Aide I, A-18 (Africana Stud. & Research Ctr.)

Sr. Admin. Secretary. A-17 (Arch/Art/Plann (sh))

Sr. Admin. Secretary, A-17 (Personnel (sh)) Research Aide, A-16 (University Development)

Admin. Clerk, A-16 (Law School)

Administrative Secretary, A-15 (Law School)

Administrative Secretary, A-15 (Personnel Services (sh)) Administrative Secretary, A-15 (Applied & Engr. Physics)

Library Supervisor, A-15 (Univ. Libraries (Law))

Multilith Operator II, A-15 (Graphic Arts Services)

Searcher I, A-13 (Univ. Libraries/Acquisitions/Olin)

Department Secretary, A-13 (Graphic Arts Services) Sr. Account Clerk, A-13 (Office of the Bursar)

•Xerox Operator, A-11 (Registrar)

Records Clerk, A-11 (Personnel Services)

Secretary/Steno, NP-10 (Avian & Aquatic Animal Med. (Eastport, L.I.)) Steno II, NP-6 (Equine Drug Testing-Vet. Diagnostic Lab.)

Steno II, NP-6 (Vegetable Crops)

Steno. II, NP-6 (NYSSILR)

•Steno II, NP-6 (Education (sh))

Account Clerk, NP-6 (Natural Resources)

Account Clerk, NP-6 (Finance & Business) Steno I, NP-5 (Extension Administration)

ADMINISTRATIVE POSITIONS

Director of Lab Operations I, CPO8 (Diagnostic Lab.-Equine Drug Testing (Vernon Downs))

Assistant Univ. Counsel (University Counsel)
Budget Administrator, CP08 (Budget Office)
Director of Employee Relations, CP06 (Personnel Services)

Producer/Director, CP05 (Comm. Spec. (Media Services/ETV Center))

Systems Analyst III, CP05 (MSA-Adm. Computing)

Professional Chef, CP05 (Dining Services)

Graphic Designer-Visual Spec. III, CP05 (University Publications)

Personnel Associate II, CP04 (N.Y.S. Agri. Experiment Station (Geneva))

Business Manager, CP05 (Dining Services)

Catering Manager, CP04 (Dining Services)

Development Officer I, CP04 (Univ. Development (N.Y.C. Regional Of-

Design Engineer II, CP04 (Building & Properties (Geneva))

Computer Staff Specialist I, CP05 (Computer Services)

*Systems Programmer III, CP05 (Office of Computer Services)

Assistant Director, CP04 (Academic Funding) Executive Staff Assist. (Financial & Planning Services)

•Maintenance Supervisor, CP03 (University Unions-WSH)

Accountant II, CP03 (Finance & Business Office)

Residential Area Director/Assist. Dean of Students, CP06 (Department of

Residence Life)

Housing Assignment Coordinator/Off Campus Housing Advisor, CPO4 (Department of Residence Life)

Coordinator of Small Residences, CP04 (Department of Residence Life

 Residence Coordinator/Risley, CP03 (Department of Residence Life)
 Residence Coordinator (Balch/Comstock) CP03 (Department of CP03) Residence Life)

•Residence Coordinator/Clara Dickson, CP03 (Department of Residence

•Resident Director of International Living Center, CP02 (Residence Life-Dean of Students Office)

TECHNICAL POSITIONS

Sr. Electronic Tech. A-21 (Chemistry)

Control Mechanic (Physical Plant Operations (Union job)) Compositor-Job Expediter, A-20 (Graphic Arts Services)

Synch. Operating Tech., A-19 (Lab. of Nuclear Studies)

Computer Operator I, A-17 (2) (Computer Services)

Boiler Operator Assist, A-16 (Central Heating Plant)

Copy Preparation Spec. A-15 (Graphic Arts Services)

Custodian, A-13 (Student Housing)

Assist. Dairy Cattle Supt. NP-12 (Animal Science)

Experimentalist I, NP-11 (Pomology & Viticulture (Geneva))
Lab. Tech. II, NP-11 (James A. Baker Institute for Animal Health)

Lab. Tech. II, NP-11 (Food Science)

•Tech. Aide I, NP-9 (Diagnostic Lab.) Tech. Aide I, NP-9 (Food Science & Tech. (Geneva))

Lab. Tech. I, NP-8 (Veterinary Pathology)

Lab. Tech. I, NP-8 (Equine Drug Testing & Research (Vernon Downs) Program Aide I, NP-5 (Coop. Extension (NYC Programs)) Researcher Support Spec. II. CP04 (Animal Science)

Research Support Spec. II, CP04 (Vet. Pathology) Research Support Spec. II. CP04 (Food Science)

Continued on Page 6

'True Specialization Is Humanistic'

aises the question of what exactly general education is and where it fits in an "era of specialization." In this article in the Chronicle series on problems in high education, Ciriaco M. Arroyo, the Emerson Hinchliff Professor of Spanish Literure, argues that though a certain degree of specialization is possible without arriving at general education, it is impossible to achieve general education without the most intensive evel of specialization.

For Arroyo, general education is only reached when specialized knowledge is pushed to the point where a kind of decision is required that demands the widest possible rame of reference, far exceeding that of the line of specialized knowledge that posed the dilemma. At this point all knowledge is humanistic, that is the humanities, whether t concerns an understanding of Shakespeare or the con-

finuance of recombinant DNA research, says Arroyo, who expanded on his theses with the following observations:

"It is dangerous to distinguish between professional and general - or liberal, humanistic - education, especially if we downgrade one in favor of the other.

"Professional work takes the prime time of our lives, and if we find it alienating, it is idle to expect satisfaction from a coating of other disciplines supposedly provided by socalled general education. If the purpose of general education is to enlighten us for a personal fulfillment, this fulfillment cannot take place outside of the profession in which we meet our social responsibilities. We avoid alienation by responding to our personal mission, doing in full freedom

"Nobody gives us a recipe for what has to be done, so our existence is a search within the three realms of our world: nature, society, language. Professional and specialized research at the university intends only to achieve better levels of knowledge in order to enlighten the human search. At this point we encounter the humanistic side of all specialized research and knowledge.

"This humanistic and general side of all specialization helps us to circumscribe the space in which a philosophy of values can be rooted. We cannot imagine two parallel lines; one of intellectual discovery or "hard facts," and another of soft values." Both lines meet at the root, in the idea of vocation, and in the project and mission that define human existence from the outset. In this sense the university is not only teaching, it is preaching moral values. We tell the students that they must be careful in checking facts, faithful in reporting them, fair in the criticism of others. When we teach these values for the intellectual praxis, we are developing a habit for all personal and social activities. Where we probably fail is in the teaching of the philosophy



Ciriaco M. Arroyo

of values, and of a philosophical anthropology that describes the very origin of the concept of value.

From this perspective I must say that the humanistic liberal or general - side of every science becomes visible only after the highest degree of specialized knowledge is reached. How the human mind works in physics or sociology can only be decided by specialists in physics and sociology, and only a competent geneticist is able to see the social implications of working with recombinant DNA. At the same time these specialists do not meet their responsibility as specialists if they do not push their research toward those ultimate questions.

The narrow-minded individual who pursues knowledge in human and intellectual isolation is not a specialist, he is just a narrow-minded individual, and chances are he will not produce any breakthrough in his field. All knowledge is dialectical, and we know our field by seeing its limits in relation to others. For that we must know something of the

'However, here we must be cautious. The only universal man is the university. Today, disciplines such as physics or literature are immense fields which are not mastered by any individual. Division of labor is necessary. If we encompass a broad space we will not know the details with the precision achieved by another with less extension. The specialist who spends ten years preparing a critical edition of "Hamlet" will probably not produce its best interpretation; yet breakthroughs in interpretation may come from a footnote provided by the editor. Both have a legitimate place at the university. The editor who conveys to the students the intellectual intricacies of preparing a text and the human honesty involved in taking a plane in order to verify a quotation at the Folger library, is teaching both intellectual and moral values. Again, what is important is the awareness of where the professional and human side meet. In the last instance, words mean little: the best specialist is the best generalist; what matters is the awareness of our range and

What is valid in theory and with regard to the professor may, of course, not be valid from the point of view of the student. The student must get a general education; this means that he must be exposed to what is known about the three realms of our world: nature, society and language. At the same time the years in college are for the student a rite of passage: he has left the home where everything was done for him, and after college he will play an active role in society. The quintessence of this transition is precisely the professional choice, and together with it, the student's personal view of the world, and his attitudes toward religion and love. College education is the means to meet wise decisions in these four problems that are with us 24 hours a day for the rest of our life. We see again the profession in its humanistic side, and the fusion of intellectual and value

The exposure of the student to nature, society and language cannot take the form of watered down courses in physics or mathematics: it would be detrimental to leave the student with the impression that there are secrets reserved only for the chosen minority. The student must be given the most rigorous knowledge that he is able to assimilate, and he must also be challenged to enlarge his receptive capacity in order to assimilate more and more General education at the college level cannot be a report of results, hiding the methods that lead to those results. This is legitimate for the newspaper, not for the university. How to communicate this rigorous knowledge to students who may not command the language we are using, is a matter of constant struggle; but we must work on it, by trying to be clear, systematic, explaining technical terms, and referring all abstract propositions to the human experience in which

In speaking of education we surreptitiously associate with it the right to talk on certain subjects. I consider this an illusion. General education enables us and gives us the right to listen, it enlarges our interests, and our capacity to understand when experts talk about things.

"However, if a mechanistic distinction between professional and liberal education is wrong, one between listening and reading on one side, and talking or writing on the other, is equally wrong. They are two faces of the same commitment to search: questioning and admiring are, after all, forms of listening disguised under the form of talking. What we must avoid at any rate is the widespread idea that we must study a little of everything in order to be good conversationalists. The university is not a training school for court jesters. We educate for listening, for search and research The most universal man is the one who has more questions in his mind. Glancing at this campus, from music to veterinary medicine, from water resources to comparative literature, we learn ultimately one thing: humility; and humility, says Teresa de Avila, is truth.

Correction

The word "deifies" was misspelled as "defies" two of three times in the fourth article (March 16) of the Chronicle's series on higher education. The typographical error resulted in a meaning opposite to the one the author, David Lyons,

Army Brigadier General Charles Gorden, commander of the Third sion's "The Gong Show." Corps Artillery at Fort Sill, Army ROTC detachment's annual 85 Army ROTC cadets and guests in be afraid to make honest mistakes."

Worst of Cornell' Concert Dissonant

works performed Tuesday afternoon, March 29, in Barnes Hall by

Oklahoma, was the guest speaker more or less intentional. Unfor- several occasions, actually guffawed pieces "incompetent juvenalia," p.m. Monday, April 11 in the Barnes Tuesday, March 22, at the Cornell tunately, there was no gong present as the concert progressed from the Rouse said he and his fellow com- Hall auditorium. Formal Dining-In. Gordon spoke to tolerable levels of discordance. The somewhat less-than-grand finale, through the files of their own comthe Statler Inn on his personal themselves (most of whom are ments. Two junior members of the "that were as close to garbage as philosophy that "leaders should not graduate students studying musical audience, confined to strollers, we had ever written."

"The Darkness Worst of Cornell" and it featured ment throughout. of Sickness" and "The Beautiful seven mercifully short "regrettable Frog Pond Waltz" were among the compositions by Cornell student position graduate student who more appreciative of two concerts

composition), was entitled "The provided uninhibited accompani-

Only about 40 people showed up whose "The Darkness of Sickness" feature more serious (and hopefully their composers - all Cornell music for the event (owing to the un- for piano was one of the bigger hits better) works by the same comstudents - in an hour-long concert seasonably warm weather Tuesday. (he wrote it when he was seven), posers, as well as by several other that was, alas, reminiscent of televi- it seems that most people were out- said the concert was intended more. Cornell music composition students. side enjoying the best of Cornell) but to entertain than to edify. The first of these, "New Music from Fortunately, the resemblance was those 40 snickered, tittered and, on Somewhat uncharitably labeling the Cornell," will be performed at 8:15 to bang when the music passed first piece, a piano sonata, to the posers had made a concerted search concert, arranged by the students "Conflagration," for four instru- positions to come up with pieces

Although Rouse did not say so.

Christopher Rousen a music com- also to make the Cornell audience helped organize the concert and coming up in April, which will



Chronicle Comment

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

Students Recommend Preregistration Change

Now that students have settled natives. into this semester's routine, how much thought have they given to preregistration for the fall?

which results.

What exactly is the rationale for preregistration, and how can Cornell improve its procedure? A subcommittee of the University Academic Records and Instruction Committee has determined two basic goals of

First, it should facilitate planning for the next semester, and second, it is supposed to provide a degree of security to students by assuring them a place in their desired

Margery Clauson, Director of Records and Scheduling for the College of Arts and Sciences, and member of this subcommittee. terms Cornell's present system "antiquated." "cumbersome." and largely unsuccessful in fulfilling its

As Ms. Clauson explains, it now takes close to nine weeks to process course requests, thus professors still do not receive early enrollment figures. A surprisingly large amount of the work must be done by hand. Again, during the add/drop period, each change must be manually recorded.

In one semester 4,000 courses were dropped and almost as many were added in the Arts College alone. This slow process is further complicated by the negotiations between colleges for student spaces in out-of-college courses and for room assignments.

Although Clauson spoke in favor of the Harvard system, she added that Cornell presently lacks the funds and room facilities to implement a similar program. Harvard uses a complex computer system. Cornell hopes by 1978 to move toward a computerized procedure.

Cornell's preregistration policy clearly needs revision. Until the school can speed up the process with computer assistance, only limited improvements are feasible. The subcommittee has suggested voluntary preregistration or partial preregistration. In this way students would make a definite commitment to certain courses. Perhaps a more careful and responsible consideration of course options would eliminate some of the unnecessary

Administrators are the first to admit that the system has many

weaknesses and there are alter-

Harvard, for instance, operates on "instant registration" system. There is no preregistration, but Preregistration often seems rather, a two week "shopping useless because of the rescheduling around" period at the beginning of each semester. A complete course guide is issued, which includes times, rooms, and final exam dates.

By the end of the second week students submit study cards and schedules are confirmed.

Changes are possible through the fifth week, but a fine is charged.

While the Harvard system has been praised for its efficiency, several minor complaints are typical Serious class work is likely to get off to a late start, room changes are often necessary, and sudden jumps in course enrollment may cause book shortages. Interestingly, Cornell's preregistration policy has not eliminated some of these problems.

Yale's registration procedure is similar to Harvard's, but Princeton uses a system more nearly like community believe in civilized dis-Cornell's. Princeton, however, avoids many of Cornell's problems since it is a smaller school, and its Telecopier preregistration is less flexible.

Students too often drop a course, add it again, and then drop it once Available more before the deadline. Clauson noted long lines at the Grand Course Exchange might be reduced if changes were limited to courses, not which is available for use by faculty sections. Section and time changes and staff for sending or receiving might be more easily arranged with the individual department.

Despite its failure to fulfill both of its goals, preregistration does have merit in the security it provides, Once the roster has been reviewed and that card finally turned in, most students stop thinking about "next semester" and worry about passing

Marlene Weiss, Arts '78 charge for incoming messages.

CORNELL CHRONICIE

Published weekly and distributed free of charge to Cornell University faculty, students, staff and employes by the Office of Public Information. Mail subscriptions, \$13 per year. Make checks payable to Cornell Chronicle Editorial Office, 110 Day Hall, Ithaca, N.Y. 14853. Telephone 256-4206. Editor, Randall E. Shew. Managing Editor, Elizabeth Helmer, Circula tion Manager, Barbara Jordan.

Council Review Position Clarified

regarding a campus review of the by the campus community over the the new items. Furthermore there is specifics of the Campus Council. A last several months. report in last Thursday's Sun (March

I would like to clarify my position reviewed and discussed extensively their reaction and advice regarding

24) and a subsequent editorial on specifics of the Campus Council to Friday implied that I would not allow the Executive Committee of the the specifics of the Campus Council Board of Trustees at its April 12th cussed extensively in the comaccurate, not all of my remarks were sembly by the Chester Commission. and elections for employe and stu-Where this was not possible, I There is therefore insufficient time timated that this would encompass which were not part of the Chester course to follow. more than 90 per cent of the Commission recommendations specifics of the Campus Council. since this would take several weeks. These specifics, since they are However, I did say I would try to derived firectly from the Chester check with knowledgeable and in-

opportunity for change and adjust-President Corson will report the ments built into the new system.

In summary, most of the Campus Council's specifics have been dis system to be reviewed by the meeting. The institution of the munity over the last several months campus community. While the Campus Council will follow the In order to report to the Board of statements attributed to me were timetable suggested for the As- Trustees on April 12 and have elections this April, the specifics of the reported and the conclusions drawn Therefore elections to the Council, Campus Council are being drawn up in the slightly more than three I did point out that, where possi- dent trustees must be accomplished weeks between the March and April ble, the specifics of the Campus during April. Time is thus very meetings of the Board of Trustees Council would follow the Chester limited, especially since the first To delay beyond April really means Commission recommendations, week of April is spring vacation, delaying until sometime next fall This would create a many-month stated that the spirit and essence of to await a considered response by gap with no means for participation the Chester Commission recommenthe Campus community to the few by the campus in policy making. I do dations would be retained. I es- items about the Campus Council not believe this would be a wise

> William D. Gurowitz Vice President For Campus Affairs

B&PA Dean Apologizes to Wristor

March 24 to Mr. Walter B. Wriston, and opinions or understanding of Chairman of the Board, Citicorp, where disagreement exists. 399 Park Avenue, New York, New York 10022

Dear Walter.

You have my personal apology and my apology on behalf of Cornell for the incivility which you encountered during your visit to the School on Tuesday. I regret the need to make this apology. The great majority of members of the Cornell

a Xerox Model 400 Telecopier 81/2x11 copies of materials. This equipment is located in General Services, 161 Day Hall.

For receiving copies at Cornell, the sender should call 607-256-7116 for access to our receiving equipment. As incoming material is received, the recipient will be contacted by phone and the message may either be picked up or delivered Ilisa Hurowitz, Arts '78 by Messenger Service. There is no

> For sending copies to points which also have a Xerox Telecopier or other compatible facsimile copying equipment, the copy should be brought to the General Services Office. The sender should know the telephone number used by the receiver to accept incoming messages. The sender will also be expected to provide a telephone authorization number to assign the cost of the telephone call to the recipient and an account code to which the \$3 per page charge will be billed.

The equipment is available for use between 8:30 a.m. and 4 p.m. on normal working days.

course as the best means of deems appropriate, to explore the The following letter was sent reaching either agreement on facts advantages and disadvantages of

Within the Cornell communityand most other university communities—a small number of true-believers and Yahoos unfortunately exist. They suffer from a which leaves them full of truth, righteousness and total disrespect for the opinions of others. They deserve your contempt. They have

Yahoos in today's universities are, in my opinion, too often tolerated. you may have mixed emotions at But we can ill-afford to tolerate that time, I hope and believe that behavior antithetical to the root con- you will accept. cept of a university—the mutual and uncoerced search for truth and understanding. Accordingly, I have asked President Corson, as he

establishing guidelines for conduct of public meetings that will, in the future, foster civilized debate at Cornell.

You have my compliments for your own behavior during the open meeting in Bache. You answered peculiar arrest in moral development questions candidly, humorously, and with grace. Our students at the School learned from your good example. For that alone, you have my best thanks.

> You will be invited to speak at Cornell again. While realizing that

> > Justin Davidson Dean, Graduate School Business and Public

Foreign Students Find Moment of Awakening

I read with interest the FSO's But life goes on. (Foreign Student Office) concern for 'culture shock" is certainly commendable.

While a majority of foreign students share one characteristic in common - each with a problem, their manner of responding to a problem vary. Some may look individually at their difficulties as necessary to start thought. This challenge of a problem may be an energizing force to respond more intelligently and vigorously.

problems. One cannot imagine a society without its share of economic, social, educational and Whether evaluated fairly or not, the political problems. Even in highly experience is a part of the foreign developed countries, the rate of student's history. crime, of divorce, of suicide, of insanity and of pollution seems to soar each year. How any individual can

cope with this situation is a mystery

Cornell is undoubtedly one unthe foreign student in the university. iversity representative of American Their effort to cushion the so called democratic life. It provides a rich social and educational environment required for a total and meaningful education. It projects a realistic image identifiable with the nature of its society. How a foreign student can handle the complexity of this new school environment depends on the student's intelligence to carry on a mission. Most often it is a painful struggle, a fight to survive and to win over the hardships of competition. In the case of defeat, the The real world is a place with foreign student can look back to the experience at Cornell as worth trying and a moment of awakening

> Rose Marie Nunez Graduate Student

ociety for Humanities

Six Are Selected Fellows

lection of fellows and the 77-78 academic year.

The two senior fellows, selected m outside the University, will be berto Escobar, professor at the Intuto de Estudios Peruanos in ru, and Rene Wellek, the Sterling ofessor of Comparative Literature, neritus, at Yale University. The o faculty fellows, selected from nong the Cornell University culty, will be Martin C. Bernal, ofessor of government, and Nelly rman, assistant professor of mance studies. The two junior stdoctoral fellows will be Kennell ckson Jr., professor of African story at Stanford, and Barbara alament, assistant professor of story at Queens College.

The two senior fellows will be in sidence during the fall semester. berto Escobar is one of the leading thorities on the Andean novelist, se Maria Arguedas, and on the fucture and use of the Spanish and digenous languages in the Andean gion. Before joining the Instituto Estudios Peruanos, Escobar was ofessor of literature and linguistics the Universidad de San Marcos in ma. Escobar will offer a seminar "The Writings of Jose Maria

Rene Wellek has been one of the aders in the field of comparative 9 the last quarter of the century. a taught at Yale from 1946 until s seminar is "Twentieth Century terary Criticism.

Historiography of the Canaanites." pre-colonial trade in West Africa.

Furman, who specializes in 19th

Jackson's fall seminar will be on Economics during 1963-64.

imanities has announced the specializes in Chinese politics and and his spring seminar will be political thought, but while he is at "Comparative Black Intellectual minars they will offer for the the society he will work on a project History." Jackson received his Ph.D. remote from his usual field of study. in 1971 from the University of He intends to devote his time to California at Los Angeles and has studying the relations between the been teaching at Stanford since Canaanites and the Phoenicians, 1969. During 1964-65 he was a two ancient middle-eastern peoples. Fulbright Scholar at Cambridge, and His fall seminar is entitled he spent one of his numerous Canaanites and Phoenicians," and fellowships in Ghana, where he did his spring seminar will be research on social anthropology and

Malament's seminar, to be ofcentury French literature and fered throughout the year, will be women's studies, will offer a "Politics and Culture of the English seminar throughout the academic Working Class." Malament received ear on "The Politics of Style." In her Ph.D. from Yale University in 1975, Furman received the Clark 1969 in the field of modern British Award for Distinguished Teaching. History. She taught at Yale until The two junior postdoctoral 1973, when she went to Queens fellows will also be in residence College. She was a Fulbright throughout the academic year. Scholar at the London School of



Disposal of Nuclear Waste Is Talk topic Richard M. Werthamer, chairman geared to the specific problems of

of the New York State Energy New Yorkers. Research and Development Authority, will speak at 4 p.m., Cornell will be hosted by Duane Wednesday, April 13 in Room 401, Chapman, a faculty member of the

erature in the western world dur- talk titled. "Nuclear Waste and Agriculture and Life Sciences and a Energy Conservation.

The talk will explore the problems authority. s retirement in 1972. The title of associated with the disposal of high-The two faculty fellows will be in cond aspect of the seminar will sidence at the society throughout review energy-related research

Werthamer's day-long visit to Department of Agricultural The public is invited to attend his Economics at the State College of member of New York's energy

115 Franklin Hall. It is open to the America after his imigration here in

The above is a frame from the film "Motion Painting No. 1" by Oskar

Fischinger, whose work will be discussed at a public lecture, with il-

lustrations of his work, at 7 p.m. Monday, April 11, in 115 Franklin Hall.

Topic of Presentation

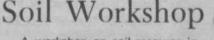
Filmmaker's Work

William Moritz, Fischinger's Norman McLaren. biographer, who will also discuss Pentangle II in cooperation with music.

abstract filmmaker Oskar Fischinger, Art at Cornell. will show and discuss her husband's

Fischinger was a filmmaker in work at 7 p.m. Monday, April 11, in Germany in the 1920s and in 1936. He worked with Fritz Lang and had a profound influence on She will be accompanied by John Cage, Jordan Belson and

Fischinger produced animated the artist's work, which included advertising films starting in 1925. Walt Disney's "Fantasia." The event and then did a series of abstract is sponsored by Cornell Cinema and films, synchronized to sound track



ventories, which is intended to improve soil surveys and land-use planning in less developed countries will be held April 4-6 by Cornell's Department of Agronomy in cooperation with USAID and the University Consortium on Soils of the Tropics.

Fifteen specialists from various parts of the United States and abroad will present papers about land-use planning in various parts of Africa and other less developed countries. Cornell's own team, under the leadership of Armand Van Wambeke, which is busy with an intensive study aimed at the improvements of soil surveys and land-use planning in less developed Risley College and the Student countries, will also take part in the

level radioactive wastes in West Soil Workshop Computer Tampering Valley, a region near Buffalo. A se-Problems Are Solved

was not available to academic and ing the main power plug for Baker administrative computer users at Lab," Conway stated. numerous times during the evening operation of the computer.

failure of the highly sophisticated Conway said. electronic equipment, were resolved by the termination of a university employe, according to Robert Blackmun, acting director of the University's Office of Computer Services (OCS).

The tampering incidents increased the amount of "down time"-time the computer cannot be used because of malfunctionsfrom 2 to three per cent of the normal operating schedule to about 6 Computer Board Chairman, "and to 10 per cent of scheduled time. Over the two-month period, approximately 100 hours of potential use complete protection." Lawrence tampering, said Blackmun, causing legislation to clarify the responboth temporary overloads and in-sibilities of persons working with

the University Computing Board, ex- has developed over the past two plained that the IBM 370/168 com- months simply cannot be tolerated," puter is the principal laboratory said Lawrence, "and we aim to do facility for all computer science clas- all in our power to prevent reocses. "Causing interruptions in com- currence."

Cornell's IBM 370/168 computer puter services is analogous to pull-

"As a result of these incidents. hours between Jan. 12 and March courses have been disrupted and 16 because of tampering with the students, who need computing skills, may have been disillusioned The problems originally thought due to the exceedingly bad taste of to be the result of an intermittent it they have acquired this semester."

> Although the individual involved in the tampering had access to some information about users' data and accounts, this information was not used, and there is no indication that a significant security exposure occurred, Blackmun said.

"Security is necessarily a central concern of all computer operations, added Samuel A. Lawrence, the neither technology nor legal standards are fully adequate to provide were therefore lost due to the reported that he is requesting computers and to increase the Richard W. Conway, professor of severity of penalties for computer computer sciences and a member of abuse. "The kind of situation which

Timpani Concert Set A concert entitled "Timpani in the National Symphony in olo and Ensemble," featuring the Washington, D.C., the Juilliard

performed at 8:15 p.m. Wednes- Symphony Orchestra. By. April 13, in the Risley Hall din-9 room. Admission if free.

The six-member group, which erforms modern music written for le timpani, or kettle drums, and ther instruments, will also spend a ay on campus holding workshops r music students.

Kregal is the solo timpanist with e Buffalo Philharmonic and has eld associate or solo positions with Finance Commission.

ell-known timpanist Jesse Kregal Orchestra, the Oregon Symphony nd a small virtuoso ensemble, will Orchestra and the Toronto

> The other members of the ensemble, all members of the Buffalo Philharmonic Orchestra, are John Burgess, flutist, Marilyn Kregal, violinist, Don Reinfeld, cellist, John Landis, pianist, and Lynn Harbold, percussionist.

The concert is sponsored by

Garden Program Aides Sought This summer, green thumbs may organizers hope to create a prosper-

9 heads of escarole from the midst the urban soil.

Cooperative Extension has ve boroughs.

In so doing, the program's tion or work experience.

de Highway or in the heart of classroom to teach youths, adults how a garden grows.

Toward that end they are seeking programs. eveloped a program aimed at coax- to fill 25 summer jobs, 15 for gar-9 a harvest of both vegetables and dening aides and 10 for nutrition lowledge from plots scattered aides. For both, applicants should be troughout each of New York City's high school graduates with at least S. Spero, N132-A Martha Van one year of additional related educa-

seen sprouting near the West ing garden and thriving outdoor skills in communicating with groups rooklyn, sowing tomatoes or pluck- and community groups about and in writing since they must not vegetables and nutrition and exactly only maintain the gardens but also assist in workshops and educational convenience to computer users.

Applicants for the 12-week summer program should contact James Rensselaer Hall. The deadline is

Women to Fence in Nationals

nationals this week, having finished the season 13-0. The team won the Unstate New York Division Championship and varsity fencers reached the finals in all six individual competitions in which the team participated.

Leading the team as A fencer is Becky Bilodeau '79, an English major from Concord, Mass. The other three team members are Natalie Blagowidow '77, genetics, from Jamaica, N.Y., in the B position; Susan Kruse '77, majoring in anthropology-archeology, from Lincoln, Mass., C fencer for the team, and Noemi Bolvary '77, a Linguistics major from Toronto, Ontario, Canada, a former junior Olympic fencer for Canada, who is D fencer for the Cornell team.

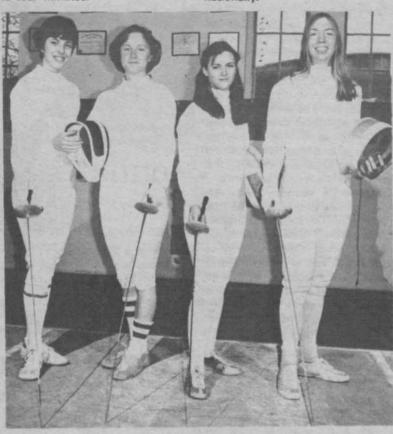
The nationals is a three-day competition of team fencing in a roundrobin playoff for the first two days. The third day is an individual event with the top 24 fencers competing.

The Cornell team will face last year's champion, San Jose State College, and Portland University which has defeated San Jose several times this year.

Thirty teams qualify for the nationals, so each fencer faces 29 bouts in the first two days of events.

Team is competing in the three-day although the average bout is three Team is ranked in the top 10 teams to four minutes.

nationally



Cornell Women's Fencing Team members are (left to right) Natalie Blagowidow, Noemi Bolvary, Becky Bilodeau and Susan Kruse.

Challenges of the Future Series

Tomorrow's Student to Be Topic

The third talk in the "Challenges of the Future" Human Ecology Lec- Medal from the American Council Academy of Education. ture Series is set for April 12 in on Education for her book "Accent Martha Van Rensselaer Hall on Learning" and previously Auditorium. The lectures examine received an award for the book State College of Human Ecology higher education as it relates to the "Beyond the Open Door." She also and is open to the public. well being of individuals and

women and dean of students at dents and the Ecology of the Learning Process." Cross currently holds a and Development in Higher Education and distinguished research scientist at the Educational Testing Service in Berkeley.

Objective Knowledge Is Lecture Topic

John R. P. Friedmann, professor at the School of Architecture and Urban Planning at the University of California at Los Angeles (UCLA) will give a public lecture on "A Critique of Objective Knowledge: The Epistomology of Social Practice," at the Andrew Dickson White House. Friedmann's lecture is sponsored jointly by the Society for the Memorial Service Slated New York State are invited to at-Humanities and the Department of Transactive Planning."

Last year she received the Borden was recently elected to the National

The lecture is sponsored by the

milies. K. Patricia Cross, former dean of $Russian\ Scientists$ Cornell, will speak at 8 p.m. Tuesday, April 12 on "Tomorrow's Study, April 12 on "Tomorrow"s Study, April 12 on "Tomorrow"s

joint appointment in Berkeley as will visit Cornell's Laboratory of decade research educator at the University Plasma Studies from April 11 to 18 of California's Center for Research as part of a joint Soviet-American tion is L. Rudakov, a theoretical

Four prominent Soviet scientists contributions to this field in the past

The leader of the Soviet delegaexchange program on the physics physicist and head of the inertial fuand technology of relativistic sion program at the I.V. Kurchatov electron and intense ion beans sponsored by the U.S. Energy tist working to achieve controlled Research and Development Ad- thermonuclear fusion by focusing ministration. Researchers at the very powerful and intense beams of Laboratory of Plasma Studies have electrons on small pellets of made internationally recognized deuterium and tritium.

Waste Use Conference Set

Utilization of municipal and April 27-29

A memorial service for Cornell. His most recent book is Monday, March 21, will be con-"Retracking America: A Theory of ducted at 4:30 p.m. today in the chapel of Anabel Taylor Hall.

Under the theme, "Food, Feragricultural wastes as renewable tilizer and Agricultural Residues," resources for the production of food, the conference will examine positive animals and energy will be the focus approaches to beneficial use of of this year's Cornell University waste materials such as sewage Waste Management Conference at sludge, farm manure, crop residues, 4:15 p.m. Thursday, March 31, in the Hotel Syracuse in Syracuse, and waste products from food.

Interested individuals throughout tend. The conference is sponsored City and Regional Planning at Christopher A. Black '79, who died by the College of Agriculture and Life Sciences, The American Society of Agricultural Engineers and the American Society of Agronomy.

Sage Easter Service The Cornell Women's Fencing A bout can last six minutes. The Cornell Women's Fencing Includes Special Music am is competing in the three-day although the average bout is three Team is ranked in the top 10 teams.

Luther King Memorial Professor of Black Church Studies at the Colgate Rochester Divinity School in Theological Center in Atlanta. Rochester, will be the Dean Sage Speaker at the Sage Chapel Easter service, 11 a.m. Sunday, April 10. His topic will be "Going Home in the Morning."

of the Black Church Studies Program at the Colgate Rochester School, previously served on the closed for spring recess from Saturfaculties of the Pittsburgh Boston University School of on Sunday, April 3.

Gayraud S. Wilmore, the Martin Theology. He has been a visiting professor at Princeton Theological Seminary and the Interdominational

Wilmore's books include "The Secular Relevance of the Church." and "Asians and Blacks."

Special music will be performed at the services by Betsy Shaw Wilmore, who is also the director guest organist, and Nan Hanslowe soloist.

Since the University will be day, April 2 to Sunday, April 10, no Theological Seminary and the service will be held in Sage Chape

Foreign Students Get Special Library Help

Good news for foreign students from the Academic Resources Center: If you've been at a loss for words when trying to use the University's library system. ARC may be able to help you. We've compiled a list of staff members from most of the Cornell libraries and collections who are proficient in foreign languages. They are willing to give library tours and to help you communicate with other library staff. Our list covers languages as unusual as Tagalog, Dutch, Icelandic, Finnish, Danish, Indonesian and Vietnamese, as well as Russian, German, French, Spanish

NSF Announces Research In Antarctica Program

The National Science Foundation will spend about \$6 million in fiscal the areas of glaciology, biological year 1978 for research in Antarctica and medical sciences, eart and its environs, including data sciences, upper atmosphere physics reduction and related research, meteorology, and ocean sciences Most of the logistics and support re- Specific objectives within thes quirements for investigators in the areas and further information ar field will be provided separately by contained in a program announce NSF. Proposals for research projects ment available from the Office of are due at NSF by June 1, 1977. Academic Funding, 123 Day Hall.

Research proposals are sought it

pportunities Continued from Page 2

Research Support Spec. I, CP03 (Agri. Engineering)

Extension Support Aides, CP02 (5) (Coop. Exten. Admin. (NYC Urban Gardening Programs) (1 yr. possible renewal))
ACADEMIC AND FACULTY POSITIONS (Contact Department Chairperson)

Professor & Chairman (Human Dev. & Family Studies)

Assist. Professor of Animal Science (Department of Animal Science) Assist. or Assoc. Professor of Animal Science (Department of Animal

· Assist. Professor of Poultry Science (Department of Poultry Science) These are all regular full-time positions unless otherwise specified. PART-TIME AND TEMPORARY POSITIONS (All Temporary and Part-time positions are also listed with Student Employment)

Admin. Aide I, NP-11 (NYSSILR (N.Y.C.) (Temp. f/t)) Admin. Aide I. NP-11 (NYSSILR (Albany) Temp. f/t))

Admin. Secretary, NP-8 (Admissions Office (Div. of Academic Services) (Temp. f/t))

Statistical Typist, NP-7 (Agronomy (perm. p/t))

**Library Assist. IV, A-17 (Univ. Libraries (Serials/Olin) Temp. f/t))

Technical Typist, A-13 (Civil & Environ. Eng. (perm. p/t))

Library Assist. II, A-12 (Unive Libraries/Interlibrary Lending (perm. p/t)) •Research Aide I, NP-9 (Education (Temp. p/t))

Lab. Tech. I. NP-8 (Equine Drug Testing (Temp. f/t) (Saratoga))

Tech. Aide I, NP-9 (2) (Entomology (Geneva) (Temp. f/t))

*Lab. Assist, I, NP-3 (Seed & Veg. Sciences (Geneva) (Temp. f/t))

•Field Assist.—NS (Plant Pathology (Geneva) (Temp. f/t))
Temp. Service Professional (Market Analyst) (Conference Office (Temp.

Programmer I, A-19 (MSA (Temp. f/t))

•Lab. Tech. GR-3 (Diagnostic Lab. (Temp. f/t))

Research Support Spec. I, CP03 (Natural Resources (Albany) Temp. f/t))

Research Support Spec. I, CP03 (Ornithology (1 yr. app't))

Student Dev. Spec. II, CP03 (NYSSILR (Long Island) (perm. p/t)) Extension Support Aide, CP02 (Coop. Exten. Admin. (Sea Grant Adv. Ser.

vice) (1 year position))

Agriculture and Life Sciences

AGRICULTURAL ECONOMICS: "Uncertainities in the conomics of Uncertainty," Jock Anderson, University of New ingland, Australia, consultant to Development Research Center. Norld Bank, Washington, D.C., 4 p.m., Monday, April 4, Warren

FOOD SCIENCE: "Food Additive Considerations," Willard B Robinson, 4:30 p.m., Tuesday, April 12, Stocking 204.

JUGATAE: "The Evolution of Feeding Behavior in Insects." Daniel Otte, Philadelphia Academy of Natural Sciences, 4 p.m., uesday, April 12, Caldwell 100.

NATURAL RESOURCES: "The Ecology of a Sub-Tropical Barrier Island: 200,000 Ibis and Others," John Confer, Ithaca, College, 4 p.m., Thursday, March 31, Fernow 304.

NUTRITION: Q.R. Rogers, University of California, Davis, 4:30

m., Thursday, March 31, Savage 100.

NUTRITION: "Effects of Oral Contraceptives on Folacin Status," Daphne Roe, 4:30 p.m., Monday, April 11, Savage 100. PLANT BREEDING: "Effectiveness of Recurrent Selection for otential Yield in Two Tropical Maize Populations," S. Muchena, 2:20 p.m., Tuesday, April 12, Emerson 135.

PLANT PATHOLOGY: "Jobs and Job Hunting in Academe." S. Thomas, 8:15 p.m., Thursday, March 31, Plant Science 404. POULTRY BIOLOGY JOINT WITH NUTRITION: "The Control f Food Intake: When and How Are Amino Acids Involved, Quinton Rogers, 4:15 p.m., Thursday, March 31, Rice 201.

POULTRY BIOLOGY: "The Avian Eggshell-A Mediating Soundary," R.G. Board, School of Biological Sciences, Bath, England, 4:15 p.m., Thursday, April 14, Rice 201.

Arts and Sciences

ASTRONOMY AND SPACE SCIENCES: "Lunar Occultations of Stars and Some Consequent Astrophysics," David S. Evans, University of Texas at Austin, 4:30 p.m., Thursday, March 31, Space Sciences 105.

PHYSICS: "A Lecture on Natural Philosophy-According to the Newtonian Doctrine (A Bicentennial Colloquium)," J.L. McKnight and H.C. von Baeyer, College of William and Mary, 4:30 p.m., Monday, April 11, Clark 700.

ROMANCE STUDIES: "The Ethnicity Factor and Afro-Latin American Literature," Richard L. Jackson, Carleton University, 4:30 p.m., Tuesday, April 12, Goldwin Smith 264.

Biological Sciences

MICROBIOLOGY: "The Role of Extrachromosomal DNA in the Scology, Pathogenesis and Taxonomic Status of the Streptococ-Donald LeBlanc, National Institute of Dental Research, 4:30 D.m., Thursday, March 31, Stocking 124.

PLANT PHYSIOLOGY: "Potato Invertase and Its Inhibitor, Roger Anderson, 11:15 a.m., Friday, April 1, Plant Sciences 404. Engineering

CHEMICAL ENGINEERING: "Computer Control of a Fixed-Bed Catalytic Reactor," P. Henrik Wallman, University of California,

Berkeley, 4:30 p.m., Friday, April 1, Olin Hall A.
CHEMICAL ENGINEERING: "Catalyst Deactivation," Ronald

Hughes, University of Salford, 4:30 p.m., Monday, April 11, Olin

CHEMICAL ENGINEERING JOINT WITH MECHANICAL ENGINEERING: "Mixing and Polymer Processing," Zehev Tadmor,

Steven Institute of Technology, 4:30 p., Tuesday, April 12, Grum-GEOLOGICAL SCIENCES: "New Evidence for Both

Recoverable and Non-Recoverable Residual Strain in Western New York: Its Implications Regarding Decollement Tectonics on the Appalachian Plateau." Terry Engelder, Lamont-Doherty Geological Observatory, 3 p.m., Thursday, March 31, Thurston

——Special Seminars ——

GEOLOGICAL SCIENCES: "Quaternary Tectonics of the Japanese Island," Arata Sugimura, Kobe University, Japan, 3:30 Friday, April 1, Thurston 205.

GEOLOGICAL SCIENCES: "Global Geochemistry and the Subduction Process," William Fyfe, University of Western Ontario, 4:30 p.m., Thursday, April 7, Thurston 205.

GEOLOGICAL SCIENCES: "Relevancy of Air Photos and Remote Sensing to Engineering Projects," Ta Liang, 4:30 p.m., Tuesday, April 12, Thurstaon 205.

MATERIALS SCIENCE AND ENGINEERING: "Brittle Fracture,"

F.A. McClintock, MIT, 4:30 p.m., Thursday, March 31, Bard 140. Human Ecology

TEXTILES: "Developing a Textile Marketing Plan," E.J. Milord, Milliken, Inc., 4:30 p.m., Tuesday, April 12, Martha Van Rens-

Bulletin Board=

Cornell Garden Plots Available

Some Cornell garden plots will be available to Cornell students, faculty and staff. To register for a plot, send a self-addressed, stamped envelope to Cornell Garden Plots, Box 12, Emerson Hall. Distribution will be made in mid-May and there will be a nominal charge. Details for obtaining a plot will be explained in the return

=Sage Notes==

(From the Graduate School)

Summer Tuition Awards will provide \$80 per credit hour for courses taken through the summer session. Applications for these fellowships are available in 116 Sage Graduate Center and must be submitted to Special Committee Chairmen by April 18

Save \$10. Turn in add-drop forms by April 1. These register a change from a credit to audit, or add/drop of a course, or change from grade to S/U, or changes due to course number error, or changes in credit hours listed. The forms must have the signatures of instructors of relevant courses and Chairman of student's Special Committee.

Graduate student expecting a May 1977 degree must have thesis and all forms filed in the Graduate School Office by May 13. Remember to check information sheet on thesis requirements early in the preparation of your thesis.

Preliminary Commencement information is available in Sage Graduate Center.

Human Ecology preregistration

Human Ecology preregistration for the fall 1977 term begins Monday, April 11 and ends Friday, April 22. Posters in Martha Van Rensselaer Hall provide further information.

Arts College Fall Registration

Arts College registration for fall 1977 courses will take place from April 11-22. Registration materials may be picked up in 142 Goldwin Smith starting April 11. All second-semester sophomores must be accepted into a major before preregistering.

New Tapes in Uris Library

The following tape recordings have been added to the Listening Room collection in Uris Library: "Instruments for Early Music, Don Robbins; "The Enoch Legend and Its Literature," Matthew Black: "Outstanding Problems in Middle English Scholarship, George Kane

Career Center Calendar

March 31 - Resume Critique, 3 p.m., Career Center. Sign up in advance

A representative from Colegio San Antonio Abad in April 1 -Humacao. Puerto Rico will be at the Career Center to interview education majors for positions in math, science and English, 8:30 a.m. to 3:30 p.m. Any interested person should make an appointment for an interview

Deferred Maintenance

The cost of delay is sometimes high. Construction deficiencies and recent renovations are blamed for the collapse of McGraw Tower last night. However, because of the immediacy of respone from the new Department of Maintenance and Service Operations, it is expected that reconstruction of the tower will be completed, the clocks will be set and the chimes will be playing by sometime tomorrow, which is Friday. April 1, which is something else again.



Uranus Has Rings

Continued from Page 2

behind Uranus, Elliot and his asof the light from the star lasting approximately seven seconds. During planet, Elliot explained. the next nine minutes, the light from

the star were recorded during the next 30 minutes. The star then planet, which blocked out its light history. for about 25 minutes.

Observations made as the star are analyzing their data further planet — the light from the star was blackouts.

sociates noticed a sudden blackout have occurred with such regularity through 4 at Cornell. as the star emerged from behind the

the star was blocked out four more composed of material present during the formation of the solar system No changes in light coming from that never coalesced into moons or that they are the remnants of a moon (or moons) which dismoved behind the main body of the integrated at a later time in Uranus's

He and his associates currently moved beyond Uranus confirmed looking for dust between the rings that Elliot and his colleagues had in- and other clues that might substandeed observed rings around the tiate either theory of ring formation - and will soon begin working with blocked out another five times at in- theoretical astronomers to put the tervals corresponding to the first pieces of the solar system puzzle together.

Urban Problems Is Topic

Central Control of Urban Growth.

caused by moons or other small ob- financial problems facing the world's these three subjects: The Changing Lorraine, Foundation des Villes, jects, it is unlikely that they would great cities is scheduled for June 1 Political Environment of the Cities,

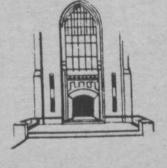
At least 18 scholars from the and Effect of Cultural Programs on United States, France, Great Britain, Urban Organization. Elliot suspects that the rings are Belgium, Sweden, Japan and West

Sponsored by the Western Societies Program in the Center for International Studies at Cornell, the conference's overall theme is "Urban Choice and State Power." Douglas E. Ashford, professor of government and director of the program, is coordinating the effort. The conference will be open to the public and some 100 persons, civic leaders as well as scholars, are

> expected to attend. Foreign scholars scheduled to take part in the conference are: Kenneth Young, University of Kent; Benny Hjern and Bernd Reissert, International Institute of Manage-

A four-day conference on the Germany will present papers on ment, Berlin; Dr. Dominique Paris: Ian Ball, Victoria University of Wellington, New Zealand; Muramatsu Michio, Kyoto University, Japan, and Michel Quevit, Lorrain University, Belgium.

> All items for publication in the Cornell Chronicle must be submitted to the Chronicle Office, 110 Day Hall, by noon on the Monday preceding publication. Only typewritten information will be accepted. Please note the separate procedure and deadline for Calendar entries, as explained at the end of the Chronicle Calendar on the back pagè.



March 31-April 13

*Admission charged.

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

All-items for the Cornell Chronicle Calendar must be submitted by mail or in person to Fran Apgar, the Office of Central Reservations, 32 Willard Straight Hall at least 10 days prior to publication of the Chronicle. The Calendar is prepared for the Chronicle by the Office of Central Reservations.

Thursday, March 31

12:10 p.m. International Economic (Dis)Order Bag Lunch Seminar: "The Crisis of Caribbean Political Economy: Problems of Dependency in Plantation Societies," Pierre-Michel Fontaine, visiting assistant professor of Africana Studies and a citizen of Haiti. Sponsored by CRESP and CIS. Coffee and cookies. Uris Hall

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19. 4 p.m. Open reading-Prose and Poetry. Temple of Zeus, Goldwin Smith.

4 p.m. Department of Natural Resources Seminar: "The Ecology of a Sub-Tropical Barrier Island: 200,000 lbis and thers," John Confer, Ithaca College, Fernow Hall 304, 4:30-6 p.m. World Tae Kwon Do Association-Korean Karate.

Beginners classes. Third floor lounge, Noyes Center.

6 p.m. The Christian Science Organization invites students. faculty, staff and visitors to campus to a Readings and Testimony meeting in the Founders Room, Anabel Taylor

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

8 p.m. Viet Nam trip report and slide presentation by Stewart Meacham of the American Friends Service Committee delegation to Viet Nam in February. Sponsored by Young Friends. Founders

8 p.m. "Thursdays" featuring "Waterfall." Admission is free Open to the community. Sponsored by Willard Straight Hall Board. Straight Memorial Room.

Friday, April 1

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.

1:15 p.m. SALAT-AL-JUMA (Friday Prayer for Muslims). Edwards Room, Anabel Taylor

3-7 p.m. Happy Hour. Thirsty Bear Tavern, North Campus.

4:15 p.m. Coalition for the Right to Eat meeting to discuss issues of world hunger and campus activities to raise awareness. Forum, Anabel Taylor.

4-6 p.m. Happy Hour. The Pub, Noyes Center. 8 p.m. *Cornell Cinema presents "Taking Off." Attendance limited. Taking Off Series. Uris Auditorium.

Saturday, April 2 5-7:30 p.m. *Steaks Ltd. in the Student Cafeteria. Statler Inn. 5:15 p.m. Catholic Mass. All welcome. Anabel Taylor

8 p.m. *Cornell Cinema presents "Murder on the Orient Express." Attendance limited. Uris Auditorium.

Sunday, April 3

9 a.m.-1:30 p.m. *Sunday Brunch in the Rathskeller at Statler Inn. Classical International Cuisine

9:30 & 11 a.m. Palm Sunday. Catholic Masses. All welcome. Anabel Taylor Auditorium.

8 p.m. *Cornell Cinema presents "North by Northwest." Attendance limited. Uris Auditorium.

Monday, April 4

p.m. *Cornell Cinema presents "Monkey Business." Attendance limited. Uris Auditorium.

Tuesday, April 5

8 p.m. *Cornell Cinema presents "Juggernaut." Attendance limited. Uris Auditorium.

Wednesday, April 6

8 p.m. Family Penance Service. All welcome. Anabel Taylor Chapel.

8 p.m. *Cornell Cinema presents "Sugarland Express." Attendance limited. Uris Auditorium.

Thursday, April 7

7:30 p.m. Holy Thursday Mass. All welcome. Anabel Taylor

8 p.m. *Cornell Cinema presents: "La Belle Americaine." Uris Auditorium.

Friday, April 8

5 p.m. Good Friday Service. All welcome. Anabel Taylor Auditorium.

8 p.m. *Cornell Cinema presents "Lost Horizon." Attendance limited. Uris Auditorium.

Saturday, April 9

10 a.m. *Cornell Varsity "B" Lacrosse-Monroe Community College. Schoellkopf Field.

2 p.m. *Cornell Varsity Lacrosse-Rutgers. Schoellkopf.
7 p.m. Catholic Easter Vigil. All welcome. Anabel Taylor Chapel.

8 p.m. *Cornell Cinema presents "Catch 22." Attendance limited. Uris Auditorium.

Sunday, April 10 9 a.m.-1:30 p.m. *Sunday Brunch in the Rathskeller at Statler Inn. Classical International Cuisine

11 a.m. Sage Chapel Convocation. Gayraud S. Wilmore, professor of Black Church Studies, Colgate Rochester Theological Seminary, Rochester.

11 a.m. Catholic Easter Sunday Service. All welcome. Statler Auditorium.

8 p.m. *Cornell Cinema presents "Mr. Hulot's Holiday." Attendance limited. Uris Auditorium.

8:30 p.m. *Benefit Disco for the United Farm Workers, featuring ZOBO FUNN BAND. Straight Memorial Room.

Monday, April 11

12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.

12:20 p.m. Special Food Science Seminar: "Nutritional and Biochemical Evaluations of Processed and Chemically Modified Food Proteins," Honson Lee, University of California (Davis). Stocking 204

4:15 p.m. Society for the Humanities colloquium: "Medieval Irish Humor," John Kelleher, Harvard University, senior fellow, Society for the Humanities. Andrew D. White House

4:45 p.m. Marine Bioloigy Program presents "Plea for the Wanderer," "Seaweeds," "The Manhattan Odyssey." Free films. Plant Science 233.

7-9 p.m. Herbert F. Johnson Museum of Art and Pentangle II present Films by Oskar Fischinger, lecture by his wife and Bill Moritz. Franklin 115.

7:30 p.m. Food Facts and Fads, Food Science 150 Spring Lecture Series: "Are We an Overprotected Species?" Paul Khan, Continental Baking Co. Uris Auditorium.

7:30 p.m. Sexuality Rap Groups. Morrill 111.

7:45 p.m. Ornithology Seminar. Public welcome. Lyman K. Stuart Observatory, 159 Sapsucker Woods Road.

8:15 p.m. Department of Music presents New Music from Cornell, works of Gibson, Heller, Lehrman, Ng-Quinn, Rosenbloom and Rouse. Barnes Hall.

9 p.m. *Cornell Cinema presents International Animation Compilation (Award winning shorts from Europe, Asia, and the Americas), Film Club Members only, Uris Auditorium.

Tuesday, April 12

12:15 p.m. Cornell Women's Caucus. Uris Hall 494. 12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19. 4 p.m. *Cornell Varsity Baseball-Cortland. Hoy Field.

4 p.m. United States China People's Friendship Association meeting. Straight Loft III.

4 p.m. Willard Straight Hall Board and Program Committee present Recital Series: Pamela Pine, vocalist. Selections from Handel, Caldera, Scarlatti. Refreshments available. Straight International Lounge

4:30 p.m. World Tae Kwon Do Association-Korean Karate Third floor lounge, Noyes Center

4:30 p.m. Informal Lecture Recital by Duane Heller: Works of Copland and others. Sponsored by Music Department. Barnes

4:30 p.m. "The Ethnicity Factor and Afro-Latin American Literature," Richard L. Jackson, Carleton University. Sponsored by the Latin American Studies Program and the Department of Romance Studies. Goldwin Smith 264.

5 p.m. Southeast Asia Film Series: "Sacred Trance in Bali and ' altered states of consciousness in Animistic, Hindu and Muslim rituals in Java and Bali. Morrill 106.

6:30-8 p.m. Bible Study, sponsored by Lutheran Campus Ministry. All welcome. Lutheran Church Community House, 111 Oak Ave.

7:30 p.m. Men's Resource Center: open meeting in the Alternatives Library, Anabel Taylor

7:30 p.m. Folk Dancing for couples. Singles, beginners, all age welcome. Plant Science 404.

8 p.m. *Cornell Cinema presents "Loneliness of the Lon Distance Runner." Attendance limited. Uris Auditorium.

9 p.m. Cornell Country Dance Club Dance. Straight Memoria

Wednesday, April 13
12:15 p.m. Catholic Mass. All welcome. Anabel Taylor G-19.
1 p.m. *Cornell Golf-Rochester. Cornell University Golf Course

4 p.m. *Cornell Varsity Baseball-Ithaca College. Hoy Field. 4 p.m. "Nuclear Waste and Energy Conservation," Richard

Werthamer, chairman, N.Y.S. Energy Research and Developmen Authority. Warren 401.

4:15 p.m. Society for the Humanities annual invitational le ture: "Neurobiology and the Cartesian Myth," Richard O'Briedirector, Division of Biological Sciences, Cornell. Kaufmar Auditorium, Goldwin Smith.

5 p.m. Episcopal Evening Prayer Service. Anabel Taylor Chapt

p.m. Chess Club. Straight Art Lounge 7 p.m. Herbert F. Johnson Spring Film Series presents Corne

Filmmakers. 7:30 p.m. Bridge Club. Straight North Room.

7:30 p.m. Cornell International Folkdancers. Teaching and re quests. Straight Memorial Room. 7:30 p.m. Cornell Gay Liberation business/general week

meeting. Open to the Cornell Community. Straight 28.

8 p.m. *Japanese Film Series, sponsored by China-Japa Program: "Early Spring." Director Ozu, 1956. Uris Auditorium

8:15 p.m. Department of Music presents DMA Recital: work of James Marra, Barnes Hall,

ANNOUNCEMENTS

Natural History Society auction: 7:30 p.m., Friday, April 1 Equipment, plants, specimens, books and more. Stimson G-2

Young Friends sponsor Ed & Patsi Myers Hayes for Gueri (Street) Theatre Workshops, April 16 & 17. For further inform tion, call 272-5489.

Intramural Wrestling: Deadline on entries is at 5:30 p.m., Mo day, April 18, in the locker room, Teagle Hall. Weighing-in co stitutes entry and must be done by the individual between 2:3 5:30 p.m. Weights are 130, 145, 155, 165, 180 at heavyweight. One person at a given weight.

The Goethe Prize, endowed in 1935 by Ludwig Vogelstein. awarded annually for the best essay on any topic connected will German literature. The deadline is April 15 at 315 Day Hall. T chairman of the Prize Committee is Professor Dietger Bansbe 182 Goldwin Smith Hall, 256-3388.

Marine Biology Program: Go To Sea! April 3-8. The Sea Educ tion Association will accept a class of up to 20 students a faculty aboard R/V WESTWARD. The Division of Biologic Sciences and the Shoals Lab will offer Bio.S. 409 (1 credit) for t course which will include daily lectures aboard and a handssurvey of open ocean research techniques and intrumentation u der the vessel's scientific officer, and elements of nautical scien and sail handling as apprentices to the regular ship's crew. F more information, call 256-3717 or drop by 202 Plant Science

EXHIBITS

OLIN LIBRARY: "Human Anatomy: Art and Science" from t Howard B. Adelmann collection, History of Science, Olin Libral WILLARD STRAIGHT HALL, Memorial Room: Mars Galleries Exhibit and sale. Sponsored by Willard Straight H Board, March 31 and April 1.

HERBERT F. JOHNSON MUSEUM OF ART: Mauri Prendergast, through April 24; Modern Women Artists, throu April 24; Art Insights, through April 27. Museum will be clos April 2

URIS LIBRARY. "The Four-Color Fantasy: Comics in Americ from Little Nemo to Spider-Man. Sponsored by the Comic Bo Club of Ithaca. Exhibition runs March 26 through April 22.

Spring Is in the Air

