



## Maybe...Just Maybe A New Solar System?

### *Astronomers Here, UCLA, Hawaii Study a Young Star*

Observations providing the most direct evidence for the ongoing formation of a new planetary system — not unlike our own — were announced today by a team of astronomers from Cornell University, UCLA, and the University of Hawaii.

The team's findings are based on the detection of a cloud of small solid particles, whose combined mass roughly equals that of the Earth, and which surrounds a very recently formed star in the constellation Taurus. This star, known as HL Tau, has about the same mass as the sun, but is located about 500 light-years away.

Observations made last November and December at three of the world's largest telescopes led to the discovery by astronomy professors Steven Beckwith of Cornell and Benjamin Zuckerman of UCLA, together with Cornell graduate student Michael Skrutskie and staff astronomer Melvin Dyck of the University of Hawaii.

Astronomers believe that the moons and planets in our own solar system, which is

shaped like a thin disk, were formed by the agglomeration of small dust particles, according to observations and theoretical calculations.

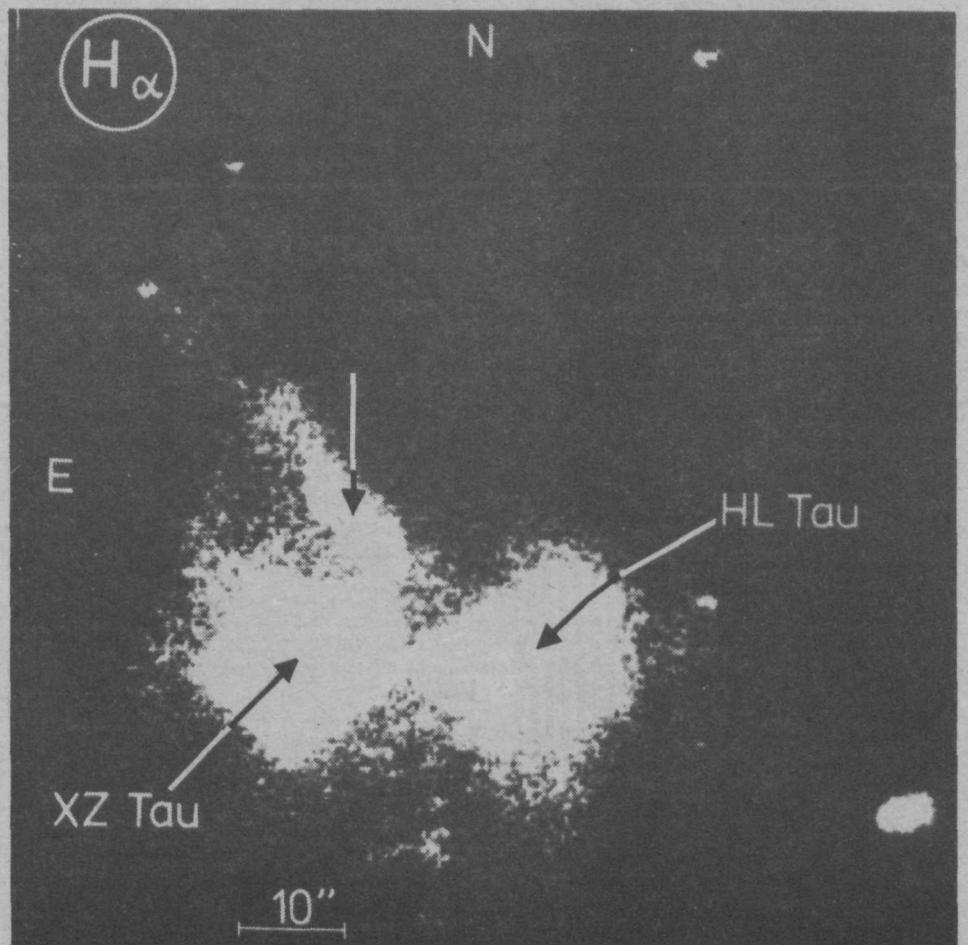
Based on this model, the team has deduced that conditions around HL Tau are just right for the formation of a planetary system. This conclusion is based on the presence of a large mass of dust particles which reside in a disk-like structure surrounding the star.

The particles around HL Tau were detected because they reflect infrared radiation emitted by the star, and scatter it toward Earth. The cloud of particles appears to extend between 80 and 160 astronomical units from HL Tau, with one astronomical unit representing the distance between the Earth and the sun. By comparison, Pluto, the outermost planet in the solar system, is 40 astronomical units from the sun.

For their project, the astronomers used a relatively new technique, called speckle

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At left, the star R Mon (arrow) near the tip of the bright fan-shaped cloud of gas in the constellation Monoceros, is one of two believed to be the center of new planetary systems. The gas cloud was probably ejected from the star a few thousand years ago. Photograph by George Herbig. Below, the star HL Tau (arrow), located within the bright blob of scattered light in the constellation Taurus, also is being studied by astronomers who speculate that the bright "jet" (arrow, top) just above HL Tau (arrow bottom) and pointing at HL Tau may be hydrogen gas ejected by HL Tau. Photograph by Reinhard Mundt and Josef Fried.



## Cornell to Buy E. Hill Plaza

Cornell has signed a contract to purchase the East Hill Plaza Shopping Center from Groff Associates for \$2.9 million, according to David G. Field, controller of Cornell's Division of Facilities and Business Operations.

"Cornell's purpose in acquiring the plaza is not to enter the shopping center business, but to gain long-term ownership of the land, which is in the midst of other university land holdings, in an area where long-term growth is seen," Field said.

The plaza contains approximately 110,000 square feet of building and nearly 10 acres of land. The university now occupies some 30,000 square feet in the plaza for offices and storage.

Stewart Knowlton of Groff Associates, manager of the plaza, will continue to manage the property under a five-year management contract with Cornell. No change is anticipated in the current tenants, the manner of operation of the plaza or the tax status of the plaza.

## Comment

### On John V. Stone

#### Editor

John V. Stone '42, for fifteen years an alumni staff member at Cornell, died Dec. 11, 1983 after a long struggle with cancer. In his memory, a number of friends saw to the establishment of a John Stone Cornell Student Emergency Fund at the university.

He often told us that a timely offer of financial help by a dean made it possible for him to remain at Cornell. He was concerned that the emergency needs of students not be ignored by a large, and at times impersonal, bureaucracy.

Glenn Altschuler, assistant dean of Arts and Sciences, administers the fund. He points out that the university cannot, of course, re-make the financial aid packages of students, but can use the John Stone Fund to help students in trouble: money to return home to meet a family emergency; to those, in short, who identify emergency financial needs that cannot be met by the university. All such students will be urged to replenish the fund when they can so that future generations of Cornellians can receive similar aid.

Stone was a big bear of a man, who worked hard and lovingly with student and alumni organizations. We think he would appreciate this use of his name, and unashamedly ask members of the Cornell community to support it. Checks payable to Cornell University should be sent to Glenn Altschuler, 55 Goldwin Smith Hall.

John Marcham  
Editor, Cornell Alumni News

### On United Way

#### Editor:

This is an open letter to all members of the Cornell community.

As most of you know by now, the 1983 United Way Campaign has been an unprecedented success. The record contribution of over \$326,000 from Cornell employees played a major role in helping Tompkins County reach its first ONE million dollar goal. Your contributions mean

that the United Way's minimum needs will be met plus funding for program expansion will be provided to eight United Way agencies.

In addition, the Hospicare program, which provides counseling and care to terminally ill persons, will be able to employ a full time nurse for the first time ever.

Tompkins County continues to be a unique place to live as evidenced by the variety of services provided by the 26 human service agencies and 13 town councils which receive your United Way support.

We live in a very rich and satisfying place because of the generous contributions of time and money made by all of the United Way volunteers. We can be very proud of our efforts to keep this community the gem of the Finger Lakes. Thank you for your continued support.

Joseph B. Bugliari  
Cornell Campaign Chairman

Richard D. Farr  
Loaned Executive Chairman

### McClane's Poetry Now in Fifth Book

The fifth book of poetry by Cornell professor Kenneth A. McClane will be published March 1 by the Black Scholar Press of San Francisco.

"A Tree Beyond Telling," dedicated to poet Gwendolyn Brooks, is the latest work by McClane, associate professor of English at Cornell. His earlier books are "Out Beyond the Bay" (1975), "Moons and Low Times" (1978), "To Hear the River" (1981) and "At Winter's End" (1982).

McClane earned his bachelor of arts degree at Cornell in 1973, his master's in 1974, and his master of fine arts in 1976.

Before coming to Cornell as an assistant professor in 1976, he was an instructor at Colby College in 1974-75. At Cornell he teaches courses in "Creative Writing" and "Contemporary Afro-American Literature."



The Clark Sisters

## 8th Festival of Black Gospel Will Be Held Here Feb. 17-19

The university's Eighth Annual Festival of Black Gospel will be held Feb. 17-19. The festival is being held in conjunction with National Brotherhood Week and African-American History Month. All events are open to the public.

The festival weekend will begin with a Friday evening concert by the Clark Sisters in Bailey Hall and will conclude with a contemporary black church service at 11 a.m. Sunday in Cornell's Sage Chapel.

As a kickoff to the festival, there will be a showing of the film, "Say Amen, Somebody," at 10 p.m. Friday, Feb. 10, in Uris Auditorium. A second showing is scheduled for 7:30 p.m. Saturday, Feb. 11, also in Uris Auditorium. Admission will be \$2 at the door.

The Clark Sisters, whose most recent his recording is "You Brought the Sunshine," will perform at 7:30 p.m. in Bailey Hall. Tickets for the concert are available at Logos, the Willard Straight Hall Box Office, Robert Purcell Union, Calvary Baptist Church and St. James AME Zion Church. The concert is being sponsored by the Third World Programming Board at Cornell.

The Clark Sisters are considered among the top female gospel groups in the country. They were the recipients of three awards at the 1982 Gospel Music Workshop of America Awards of Excellence. Also scheduled to appear with the Clark Sisters is Isaiah Jones, preacher, singer, composer, orchestrator, arranger, pianist and actor.

On Saturday, Feb. 18, 1-5 p.m. there will be a black gospel workshop directed by Lloyd Reese, who is on the faculty of William Patterson College. At 8 p.m. that

evening there will be a gospel concert with several guest choirs. The workshop and concert, which are free and open to the public, will be held in Bailey Hall.

On Sunday, Feb. 19, the Rev. Bernard Lafayette, dean of the School of Graduate Studies and Continuing Education at Alabama State University, will speak at the Sage Chapel service. LaFayette also serves as Vice President for Program Development for the Martin Luther King Jr. Center for Social Change.

"The festival," according to William King, chairman of the festival committee, "is not only to provide entertainment but to foster a greater understanding of black sacred music as a cultural experience and to provide greater appreciation for the differences in ethnic preferences." King is assistant director of the Robert Purcell Union at Cornell.

Among the choirs scheduled to perform throughout the weekend are: the William Patterson College Gospel Choir, Pamoja Ni Singers from Cornell and the New Testament Missionary Baptist Church Choir.

For further information about the festival, contact King at 256-6220.

## Cornell Chronicle

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## New Stimson Hall Lab Houses 'Heads' of Class

The skulls of humans and their primate relatives stare blankly from the shelves while thousands of bones of all kinds fill the cabinets at the newly opened Human Biology Laboratory.

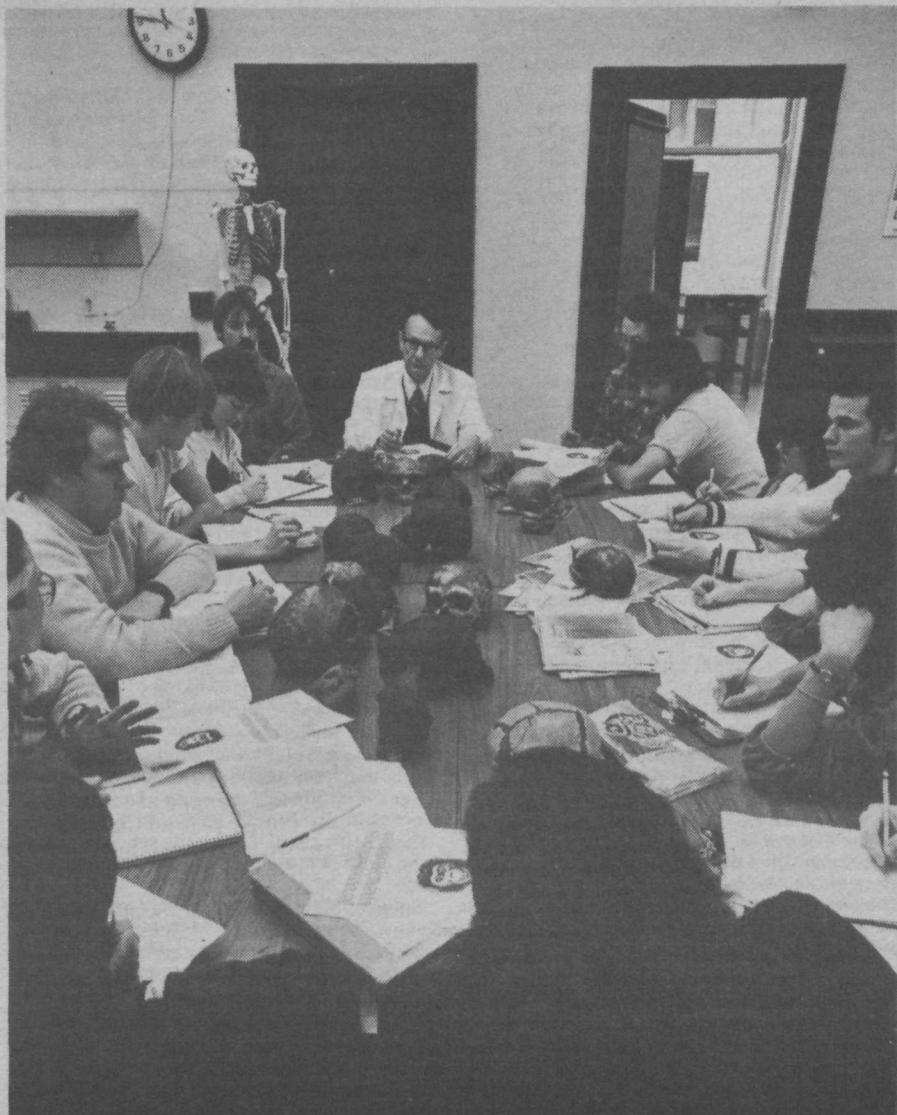
Located in 206A Stimson Hall, the laboratory is used by students in the Human Biology Program, an undergraduate curriculum that includes biological anthropology, nutrition, neurobiology, psychology, demography, ecology, genetics and paleontology. Associate Professor of Nutrition Jere D. Haas is director of the program, while Professor Kenneth A.R. Kennedy of Ecology, Anthropology and Asian Studies is director of the laboratory.

"The courses offered in the new laboratory are concerned with current issues of human evolution, the fossil record, human adaptability, human ecology and related fields in the discipline of biological anthropology," according to Kennedy. Also using the lab are introductory biology classes and the Cornell dance program, for

which the human skeleton helps in teaching the principles of kinesiology, the study of movements of the human form.

Some of the skulls and bones were once inside living creatures such as humans, monkeys, chimpanzees and even a gorilla. Other portions of the collection are fossil casts, made of plaster or polyresinous materials, from prehistoric humans and early primates. A surgical table and lamp for dissections of monkeys and a small technical library round out the laboratory's equipment.

Kennedy, a palaeontologist and forensic anthropologist who assists law enforcement agencies in identifying unknown bodies and skeletons, will continue to use his Corson Hall laboratory for work of that kind. The Human Biology Laboratory consolidates, for the first time, most human skeletal materials in a single, modern facility for teaching and student research projects.



The new Human Biology Laboratory in Stimson Hall is both a teaching and research facility.



Professor of Ecology, Anthropology and Asian Studies Kenneth A.R. Kennedy, left, and William J. Roertgen, graduate student and teaching assistant, display part of the collection in the new Human Biology Laboratory.



Students in human biology Lauren Leong, left, and Udo Savalli measure a fossil cast of a *Homo erectus* skull found in the caves of Zhoukoudian, China.

# Faculty Bulletin

December 14, 1983  
110 Ives Hall

"That society is great in which men (and women) of business think greatly of their function."

Alfred North Whitehead

The Speaker, Russell D. Martin, called the meeting to order at 4:32 p.m. He called on the Dean of the Faculty, Joseph B. Bugliari.

## 1. Announcements

Dean Bugliari: "I just want to make two announcements and make one statement. Let me say first that you will be getting in the mail in a day or two, two items. One is sort of a little reminder that this is the time of the year when we have to be vigilant about academic integrity issues. We've had a number of rather serious problems that have come up in the last week or so in situations where we have had a large number of students somehow allegedly or, in fact, getting access to exams, and I just want to alert you about that problem and ask you to take precautions to preserve the security of your exams.

"The second thing is that in the first two weeks of January we will be having eight days of programs on computers through the help of Agelia Velleman and Gordon Galloway from Computer Services. The programs are for faculty members, and they will go for one week and then be repeated the second week. One of the assumptions is that some of the faculty members may know even less about computing than I do, which is zero, and if you are interested, we ask you to sign up and let us know. It is cost free in most instances, and if you would like to come, we're handling the registration, we'll provide coffee and so forth. We hope you might be interested in coming.

"The third thing is that I would like to, in advance, since I know you'll escape at the end, thank the three people who have agreed to be on our program today - Hal Craft, Bob Matyas, and Ken King, who will be here later. I really think we owe you a great deal of thanks for spending part of your time coming over and telling us what is going on in your areas. Now, I'll turn it over to Russ."

Speaker Martin: "Are there any questions for the Dean before we proceed? If not, as Joe has mentioned, there will be three program presentations. The first is from Harold D. Craft, Jr., Director of Telecommunications, who will talk about telephones."

## 2. Presentation On Telephones

Mr. Craft: "I'm on the agenda to talk about telephones, and I assume that means nothing whatsoever to do with the present telephone system, but rather to talk to you about the new telephone system that my Department at the University is planning. I will be fairly brief and spare you the details of this system, but rather try to give you in just a few minutes an overview of what it is we are trying to do from a hardware and an instrumentation point of view; what are we trying to accomplish by doing this - on the barest level, what's in it for you, specifically; and then also describe to you the status of the project as it is now and as I see things progressing in the future.

"We're talking about a new telephone system - entirely new telephone system - for the University, a campus-wide unified system. What is it we are trying to accomplish? Why are we thinking about doing such a thing? We really have four objectives in mind. The principal one is to stabilize communication costs throughout the University. Without question communication costs throughout the University have skyrocketed over the last several years. The volatility of the telecommunications industry right now - the divestiture of AT&T - among other things, does not suggest that prices are going to stabilize or go down. I think we can expect to see them go up. The intent is to insulate ourselves a bit from all the volatility in the outside world by bringing in our own system. We want to stabilize - perhaps reduce - but certainly stabilize, communication costs. Secondly, we want to improve voice communication services throughout the University; the present telephone service provided the University as telephone service goes, and as telephone service can be provided, is absolutely appalling. On the other hand, we are used to it, we know how to work it, so it may not be conspicuous to us just how bad the service really is. I'll say something about that in a moment or two.

"The third reason is the necessity, in my view,

to provide much greater data transmission capabilities throughout the entire University than is currently there. In that sense, a new telephone system can provide a ubiquitous, medium-speed data communication highway that will go everywhere on the campus, to anywhere else on the campus. In that regard, from the data communications point of view, the telecommunication system - the telephone system - is intended to go in as part of an overall University communications plan that will embody both voice and data medium and high-speed data transmission.

"What we're doing, incidentally, is not new at all; universities are doing this - have done it - successfully in the past. RPI has just put in their own system; Ithaca College owns its own systems; Stanford and Yale are about one month ahead of us in decision on a vendor. UCLA owns its own system, and I could go on and on. Duke University, incidentally, has owned its own system since 1929. The scope of the project for Cornell University is neither small nor trivial. What we are talking about is owning, maintaining, administering our own campus-wide telecommunication system. In essence, we are talking about setting up the Cornell Bell - Cornell Telephone System - an independent telephone company, and the size of the system at Cornell University is about 11,000 lines. That is larger than many of the independent telephone companies in the world certainly larger than the service in many towns in the U.S. So, it is not trivial. We're talking about owning our own instruments, our own building wire, our own underground plant, and, of course, the heart of it all, is a computer controlled digital telephone switch a communication switch. We would become, in a sense, a communication island then. When we need to communicate with the outside world, we would still maintain that connection with the New York Telephone System - with AT&T - through maintaining our WATS lines, our FX lines, and the local dialing system: obviously we will not be isolated from the outside world. The WATS box functions that we have now and that you've all grown to love, I'm sure, would be incorporated in a transparent way within the new telecommunications system. It is an immense project, and it is one, I think, perhaps, unusual in Cornell's history in that it will touch absolutely everyone on campus in one way or another and will affect the way that everyone on campus does their business forevermore. So we want to do it very carefully and thoughtfully, and we are trying to do precisely that. The bottom line - one of the bottom lines anyway is what's in it for you. I said the principal reason for doing this is to stabilize communication costs, and in the long run, reduce them. The benefits of that to the University, I think, are obvious. I'm not going to pursue them. But because I'm not going to pursue them doesn't mean that they're insignificant. That is, the principal impetus to put in this sort of system is to save substantial amounts of money. We will be providing better voice service throughout campus - seemingly a trivial thing - but when I look at the service that is provided throughout the campus, can just feel myself how much the University is wasting in lost productivity and lost manpower and lost time by the faculty by fiddling around with a telephone system that is inappropriate. We have, among other things, department chairmen answering the phones for their faculty when the secretary is out. This sort of stuff is just totally nuts.

"We will be providing all touch-tone service throughout campus. It will be a much more uniform system than you presently see. There are all kinds of different levels of services available in the University now - from single line rotary sets to push-button sets to Com Keys, which are rows of buttons on the sides, to really whiz bang things you buy yourself. All of that would be replaced essentially with a single line touch-tone telephone which will have much more power within it than all of the fanciest phones that are currently available on campus. Electronic phones will be available also, principally for secretaries and those who have to answer or screen many lines. It will be a much simpler system. As I said, the WATS system and also the Federal Telecommunications System for those of you who can use that service - will probably be incorporated within the system so that you can make calls on that without having to specify what you're doing. If you make a long distance call, it will automatically go over WATS, and it will be the same - you will dial it the same as you do from your home. It will be flexible call screening - that is, you can have someone answer your phone if you want, or not, if you want. You will be able to be reached in the evening after hours, which currently is a problem in many parts of the University. There will be call forwarding, of

course, which allows you to send your calls to a laboratory should you be somewhere else, and if you have multiple offices on campus, you can have your calls sent to where you will be at that particular time, or send them to the office where you will not be at that particular time. It depends on how you want to work it, but that can be changed moment to moment. It is entirely flexible.

"Call conferencing which is not now available here on campus is a very powerful tool, easily obtained in the new system. It will be there - a new tool, I think, that will have to be learned to be used. And moving phones around, moving offices around is essentially trivial - it's just a software change back at the main switch. In fact, you can pick up your phone and carry it right with you and plug it into another jack, and you're ready to go.

"Data capabilities, in a sense, come automatically with the new system. As far as the telephone switch is concerned, data and voice are indistinguishable. We take advantage of that. The new telephone system will provide the capability of providing 56 kilobits, 56,000 bit per second data transmission from any telephone station on the campus. That speed is probably 20 to 30 times faster than the cruising speed on campus now. It will be really quite useful for many, many applications - not all. There will be some high speed applications that will have to go elsewhere other than through the telephone system, but that will provide, among other things, a ubiquitous access to local on-campus nets, for example, should the Engineering College put in a local network, should the Chemistry Department - you name it - wherever those nets spring up, you may want to have access to them from a remote location, from your home, for example. You can dial into the University system and then access through a gateway into those data networks. That capability will be at each phone. On the other hand, we realize that we don't really know at the present time exactly where that capability is going to be required, so we'll exercise it where it seems appropriate, and we will not pay for it in advance, so, you're not paying, in a sense, for a capability that will be unused. That in a broad sense is the scope and the capabilities of the system we are looking for. We sent out a request for proposals at the end of June, to ten pre-qualified vendors and we now have in hand ten proposals for a campus-wide telephone system, including the dormitories. All of the proposals look good; we did not send the RFP to any small corporations. So, it's not surprising that the vendors responded with quality proposals to us. They are all experienced corporations; they are all operating telephone companies; they are major equipment manufacturers. The costs of these systems are about as we expected, so we're still on track in that regard. The proposals are now being reviewed by a couple of the technical and business review groups, which include a fair representation of the units across campus.

"I'm reluctant to make any commitments on schedule at this time, even a tentative schedule, because somehow that becomes cast in concrete and gets recorded, and comes back to haunt me. On the other hand, I think you need to have some sort of feel of when the new system would go in. We are shooting, tentatively anyway, to have the new system installed and working by late summer or fall of 1985. It may be later than that; it depends upon the vendor we select to do the job. It's not likely to be earlier than that because we cannot get the special circuits we need from New York Telephone until the summer of 1985. Between now and then, should we decide to go ahead with this project, there will be a lot of activity on campus, and I think you will all be involved in one way or another. I should say that we're going to put this system in parallel to the present system, so there will be no disruption, at least no disruption in service. On the other hand, we will be rewiring every building and putting in new conduits all over the University, so it will be a conspicuous project when it goes forward. Furthermore, now we have to go out to each individual department and describe the capabilities that we have and begin to think about precisely what kind of service we want - who gets what sorts of phones, who wants electronic phones, who needs data transmission capability, what speeds, and so forth. The entire community is going to be involved in that. Finally, when the system is installed, and just before it begins to work, the entire community will be involved in a fairly important training program. People often look at me and smile: 'Telephone? I've been using one for however many years.' In that sense, I say please bear with me because the new telephone system will do things that are not terribly conspicuous, not obvious, you just need 5

or 10 minutes to go through a training program to discover what they are. To open the joys of telecommunications training plays an important part. Between now and then, also, we will have to maintain and ride with the present Bell system. That may be an interesting experience for the next year and a half. I'm just not sure how that's going to go. We will see probably changes in service, changes in administration, changes in price. I know that the ubiquitous six-button phone - the black phone with the six buttons across the bottom - is going to be removed from service by the telephone company. It hasn't been manufactured for two years, and it's no longer being supported, and we have a million of those on campus. It's going to be interesting for the next few years; we are getting started on this project, or involved in this project, none too soon, as far as I'm concerned.

"That is a very broad, a very rough broad overview. I'm available to answer any questions, should there be any."

Speaker Martin: "Are there any questions for Mr. Craft? Yes."

For the Secretary's benefit, please give your name and department if you have a question."

Assistant Professor Gary M. Dunny, Veterinary Microbiology: "The Vet College purchased a phone system about a year ago. I was just wondering how that system is going to fit in with the new phone system?"

Craft: "An interesting question. Cornell presently owns 20% of its phones, and the system at the Veterinary College is the largest single system on campus. At the very worst, that system will interface with the University phone system in the same way the present system interfaces with the Bell Centre System. On the other hand, we're going to do everything we can within reasonable cost to make the Veterinary College system totally transparent to the University. I'm not sure we can do that, frankly. That may be technically very difficult."

Professor Bernard Stanton, Agricultural Economics: "Can you tell us who and how it's going to be paid for?"

Craft: "That's the question that I'm really not qualified to answer. However, when we do cost analyses, what I've assumed is that we take whatever payment stream - cash flow - that presently goes to New York Telephone, and just divert it to pay off either lease costs or a long-term debt."

Associate Professor Alan McAdams, Graduate School of Management: "Is it possible to use this communication mechanism as the local map?"

Craft: "That's right. On the other hand, there will be a limit in the speed that you'll be able to transmit through the telephone system, and if that's adequate for your purposes, then the phone system is there, and use it. If that's not adequate, on the other hand, then we will set up an independent network that can be accessed, perhaps, by lower speed terminals through the phone system, that's 56 - presently the limit."

McAdams: "You say that we'd be changing over by fall of 1985. Is it possible to have priority changeovers such that particular areas within the University where new local nets are very useful or imperative, to establish such a local net for data transmission, at least, prior to the fall of '85?"

Craft: "I don't know, Alan. I think it's a good possibility. We'll be putting in the system parallel with the present systems, so there will be large portions of the new system operating long before the late summer of 1985. If we choose those areas, specifically, then we can satisfy that requirement. But, I'm not sure how much in advance of the 1985 date we'll have those set up."

McAdams: "The impression I get is that we're likely to have a lot of new microcomputers on campus in the next year or so, and if those could be put into a system, they'd be enormously more useful than they are as stand-alones. And so, if we could try to build that with planning, it would seem to be desirable."

Craft: "Frankly, I think the scheduling is going to be close not impossible - but it is going to be close."

Speaker Martin: "Thank you very much, Hal. Next we have Robert M. Matyas, Vice-President for Facilities and Business Operations, to talk with us about buildings and maintenance. Bob."

## 3. Presentation On Buildings And Maintenance

Matyas: "Thank you. I brought some slides. The Dean of the Faculty asked me to give you some insight into what happens backstage, and I thought the best way, in a short time, is to just

run through some slides and give you a perspective of what we're doing, and then we can take some questions." Note: Thereupon followed a series of photos revealing Cornell's subterranean passages and other sights (sites) normally hidden from view. Vice-President Matyas' commentary, somewhat abbreviated, follows.

"The campus consists of 400 acres here in Ithaca, and we have 200 major buildings. The buildings are covered with 65 acres of roof. We have a lot of roofs, and if you consider that in any roofing system, in its lifetime, 2% of it is defective, at any time, therefore, I have 1.2 acres of hole. We also have 38 acres of paving. Underlying the campus, there are 36 miles of sewer line, 20 miles of steam lines, 25 miles of water lines, 9 miles of chilled water. Unfortunately, all of these miles of utilities are underground. Unlike a lot of new institutions where they have utility tunnels, we're direct burial. So, you'll constantly see us doing deep tilling around here. We try to minimize the problem, but that's the way we are. We essentially own our own utility company. Unlike Yale and Harvard, where they live in large cities, we live in a marvelous small town in upstate New York, and we are the utility company in a sense. Electrically, for example, we own our own electrical distribution, and we buy most of our electricity wholesale from NYSEG. But we are a very sophisticated city. We have 25,000 people who work and live here.

"Another utility is central heating. We pipe this around the campus. This past year we manufactured and exported one billion pounds of steam for heating and process. To give you a comparison: When the oil embargo hit in 1972-73, we were producing and piping around one and a half billion pounds of steam. So, in ten years we've reduced the steam production by half a million pounds of steam, despite the fact in that period of time we added a half million square feet of new plant. That's energy conservation in spades, and we continue to work at it. The University took on the energy conservation program at a time when we were virtually bankrupt in the early seventies, but it has paid off. Had we not done that, the amount of money we would need in endowment to pay the heating bills today would be enormous.

"Next, we go inside the boiler plant. There are 6 boilers. The big fellow is boiler number 8. We burn a lot of coal. We're on three fuels. We burn oil, gas, and coal - the dominant fuel is coal. We've been installing pollution abatement machinery in the plants on a continuous basis. We also make our own drinking water. We take the water out of Fall Creek, and we have a rather old but venerable water plant, and we produce two and a half million gallons of drinking water every day. This is one of the settling tanks. There are some beautiful marble controls with bronze fittings, and they still work. We are a certified water testing laboratory; we maintain our own testing facilities, and we test for local communities as well. Another utility is chilled water. We have, as I said, nine miles of chilled water piping around town, and it's principally used for process and air conditioning where air conditioning is required by the high density use of the building under the building code. There are three chilled water plants on the campus, and they are all interconnected. So, if one goes down, we can backfill with another.

"Recently, we reopened the old hydroelectric plant at the bottom of the gorge, right under the suspension bridge. It was abandoned in the fifties or early sixties because NYSEG was producing electricity cheaper than this plant could. We have made it into a brand new automatic plant. There is no attendant; it is all done remotely, and last year those two little turbans produced \$300,000 worth of electricity, which is about 6% of our need. In addition, I could tell you that we have a project we are taking to the trustees in January to do a co-generation program. That's where we make electricity as a by-product of our heating plant. The co-generation plant will be about five and a half million dollars worth of investment, and it will produce annually 1.2 million dollars worth of electricity. The payback is on the order of 4 or 5 years. Most of our buildings have solid state control boards. We now have to have a shop that regularly maintains the electronics.

"We're self-insured at Cornell, essentially self-insured, and as a consequence of that, we have beefed up substantially our Life Safety people and our inspectors. We have a rather sophisticated Life Safety group now. They do environmental testing and fire extinguisher work. We have an in-house architectural team. And an in-house engineering team. We maintain this campus, or we try to, by patching, doing some roof work, remodeling. We have a machine shop. And a welding shop. We clean 147 acres with 250 people, and that works out to 30,000 feet per person, which is well above the average of our sister institutions and well above the SUNY standards. In addition to that, we take care of the

plantation: we sweep it, we sow seed, we trim, we mow the grass, we plow, we shovel.

"We have a telephone system which is the Centrex that Hal Craft mentioned, and we provide a Centrex operators group. This will change. We have an electronic directory system. We have a campus mail system, which delivers 50,000 pieces of campus mail every week. We have a laundry. The Laundry did a half million pounds of laundry last year. The Travel Office in Day Hall is not the only travel service we use. As some of you know, we encourage you to use some of the people downtown, and, let's see, we issued last year 8,000 tickets worth 1.8 million dollars. General Stores carries 6,500 items, largely items that we can buy wholesale cheaper or they're difficult to find in this locale. They filled 40,000 orders last year. Lou Roscoe is the University architect, and he's charged with campus planning, works with the Campus Planning Committee, the Facilities Resource Committee, and the Buildings and Properties Committee of the Board. He's always trying to keep track of where buildings should go, where traffic is going, where utilities need to be placed or where they are, if they might be in the way of a building that is proposed.

"Donna Raynsford runs the Capital Projects Center, and at the moment, she's juggling 40 million dollars worth of capital works on this campus.

"It's a remarkable campus, very sophisticated. It needs a lot of care. We need a lot of help from you people to know where it needs care. So, don't be bashful; some of you aren't. And, keep it up. Thank you."

Speaker Martin: "Are there any questions for Mr. Matyas?"

Associate Professor Henry H. Hagedorn, Entomology: "I walked into the University the other day, and I walked down the path that's near Beebe Lake and up through the hill to the observatory. That path is a very dangerous one in the winter, and I would like to call your attention to it. It really just needs some care."

Matyas: "Is this on the north side of Beebe Lake?"

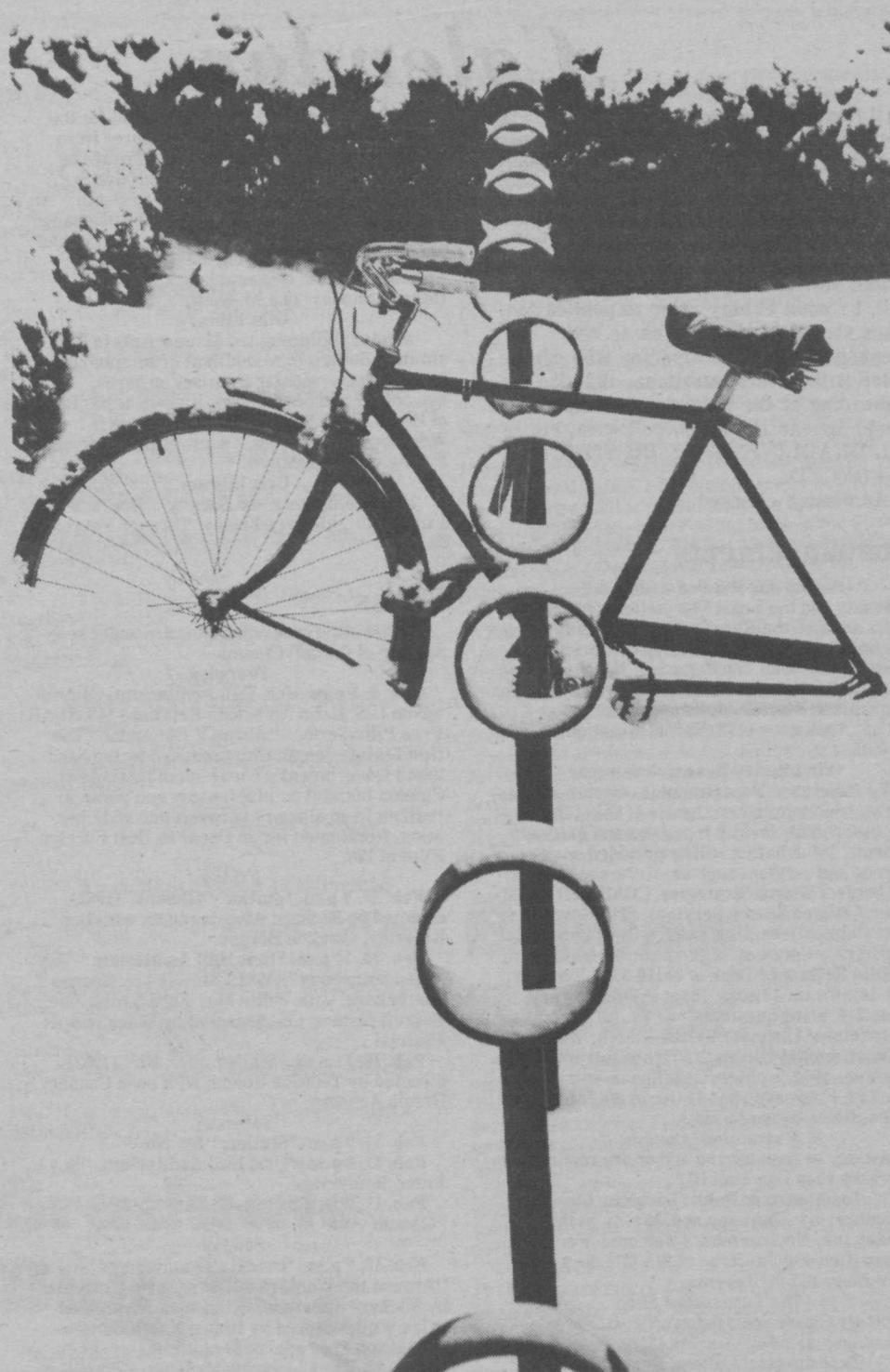
Hagedorn: "It's on the north side."

Matyas: "Okay. Well, you've just informed me. But let me take the opportunity to say, please don't wait for an occasion like this. Call Life Safety Services and put it on notice, and they'll write it up. At least get it on the docket, and we'll review it. We have project directors' meetings every Monday, and it's a three-hour session to look at all of the input, requests or trouble calls. We really need you to let us know what's happening around here. We simply don't have the budget to have people running around in great depth, so let's hear from you."

Associate Professor James M. Burlitch, Chemistry: "In the past, Bob, as you may know, I have spoken about the quantity of salt used on this campus, and I say it again because I think it's too much. You might have shown slides of some workers laying out new turf near the road where the salt has burned it off, and this happens roughly every year and it happens to my car about every two years, in about the same way, and I guess I just wondered whether there were any plans to cut down on the use of salt, and spare us all."

Matyas: "That's a good question because I've got an answer this time. It has been of great concern to a lot of people, and we have just had approved a project for what is called 'grit storage'. We're going to build a storage building out in the warehouse area in back of the apple orchard, and we're going to store dried grit course sand - and other melting materials including salt. We did a very serious study on salt because, in my mind, we were paying dearly for that salt in damage to the campus. It happens to be a pet project of mine, and I think you have seen already a marked reduction in the use of salt, and we've gone to Urea, which is very expensive but, I think, in the long run it's a good investment. The grit storage building is so you can keep grit - sand, if you will, or cinders - dry, so they can be put in the spreading hoppers and used instead of clinkering up and freezing up. So, we're on the way to do that. Let me ask you for some help, too. There is one area that I haven't been very good at controlling because there are a lot of independent operations here, and for perhaps good reasons - maybe somebody didn't get to a path or a staircase - and they will go out and buy a bag of salt and throw it around; we are impounding salt bags in buildings all the time. One of the worst examples of the abuse of salt is in front of the addition to the Graduate School of Management. We put down a brand new sidewalk there. Somebody locally threw salt on it before the cure was on and destroyed the sidewalk. That's costing a great deal of money, and, therefore, I can rationalize buying Urea at five times the cost - or ten times the cost - because I've just lost a \$30,000 sidewalk. We're on to it, Jim."

Professor P.C.T. deBoer, Mechanical and



Aerospace Engineering: "A lot of us are wondering why you don't go to utility tunnels rather than digging up the ground all the time?"

Matyas: "I looked at that about seven years ago, and it looked like a 120 million dollar investment; it's still out of the question."

deBoer: "Isn't it something that could be done gradually?"

Matyas: "Well, I tried about three years ago another program and it didn't work - that is, whenever we built a new building, we would dedicate sub-basement space to utility conduits and the like, and I've had marginal success with that, but the one that I had a real opportunity to do is Bio Sci, and it got stripped out of the budget as not relating to Bio Sci. What I was hoping for was a block-long tunnel. I didn't sell it. But it's something of great concern to us - to be able to walk through those tunnels and maintain them rather than maintain them with a backhoe. It's very important to us."

Speaker Martin: "Professor McAdams, you aren't the one who put the salt on the sidewalk of the Graduate School of Management, are you?"

McAdams: "No."

Matyas: "He was on leave. It was his neighbor, right?"

McAdams: "How are we doing on steady state maintenance? Are we holding our own, or are we losing ground?"

Matyas: "We're losing ground, I'm sorry to say. We are short 1.5 million dollars in our appropriation for this current year, and we are slowly building a massive deferred maintenance program. The provost has taken special interest in this, and I'm hoping that he will have an effect that I think he can bring to it before he leaves it. He's a good friend of that program. But we have been losing ground, and the administration knows it and the trustees know it. It's a matter of priorities, but basically - well, I don't know all the numbers, but we're one and a half million

dollars short. I think we should have had five million dollars and we got three and a half. Roughly, they are the numbers, and I'm talking only with the numbers for the endowed part of the campus. The state part has equal problems, and their proportions of underfunding are about the same."

Dean Bugliari: "Bob, for awhile there has been a problem with that road that exists between Martha Van Rensselaer Hall and Beebe Lake. What can you tell us about that?"

Matyas: "Oh, the City's road? Well, Walter Relihan, the University Counsel, did a lot of staff work on that, and we now have in writing from the Department of Transportation of New York State saying clearly that it is the City of Ithaca's road. It always has been. The road was there before Ezra Cornell bought the farm on which this University now sits. It was a private turnpike, which was then absorbed by the City of Ithaca. It needs about \$800,000 worth of work, and I'm not about to commit University funds for City roads. It's just that simple."

Professor Donald F. Sola, Modern Languages and Linguistics: "I'd like to take this opportunity to go to Bob, here. There has been a ramp built on the building I work in - Morrill Hall - along the north edge - to allow access for people in wheel chairs. It happens to lie directly under a roof edge that releases ice."

Matyas: "It was probably put up in the summertime. Morrill Hall."

Sola: "It would be a good idea when you're looking down also to look up."

Speaker Martin: "Thank you very much, Bob. We are running just a few minutes ahead of schedule, and if there are further questions for our first speaker, you're welcome to ask him at this time. Nothing more on telephones? All right. Our final speaker is Kenneth King, Vice Provost for Computing."

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# Calendar

February 1984						
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26	27	28	29			

All items for publication in the Calendar section, except for Seminar notices, must be submitted (typewritten, double-spaced) by mail or in person to Fran Appgar, 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 WILL BE STRICTLY ENFORCED.

\*—Admission charged.

## Announcements

**Beauty and the Beast Storyteller**  
Beauty and the Beast Storytellers (Mitch Weiss and Martha Hamilton) will present "Long Ago and Far Away: An Evening of Stories from Around the World," on Saturday, February 11 at 8 p.m. in the Founders Room, Anabel Taylor. The programs will be for adults and children age 8 and up. Admission is \$3. For information, call 277-0016.

**Olin Library Research Seminar**  
The Reference Department is offering a general, two hour seminar on the use of Olin Library for research for faculty members and graduate students. Information will be provided on resources and services such as: Reference Materials, Subject Search Strategies, COMPASS (Computer Assisted Search Service), U.S. Government Publications, Olin's Union Card Catalogs, Interlibrary Services. Sign-up for the seminar at the Olin Reference Desk or call 6-3319. Tuesday, Feb. 14, 10 a.m.-12 noon. Meet in Olin Library, Room 214, bring questions.

**Intramural Ultimate Frisbee (Men, Women)**  
Experimental Ultimate Frisbee Intramurals. Minimum of 12 to enter. Deadline on entries is Tuesday, February 14 at 4 p.m. in the Intramural Office, Helen Newman Hall.

**Extramural Courses**  
Last day to register and add or drop courses is February 10 in Ives Hall B12.

**Toastmasters Public Speaking Club**  
Meets every Thursday at 6:30 p.m. at the Holiday Inn. New members welcome. For more information call Jay True at 273-7511 days or Steve Muka 273-0610 evenings.

**The Cornell Pot Shop**  
Pottery Classes now being offered. For information call 256-5170 or 256-4311.

**Experimental College Registration**  
Course Registration for the spring term of Experimental College will be held February 13-15 in the Memorial Room of Willard Straight Hall from 6-8 p.m. with different courses registering each evening. Feb. 13 - Bartending courses, Feb. 14 Dance courses, Feb. 15 - all other courses and unfilled dance and bartending courses. Late registration will be held Feb. 16 and 17 from 10 a.m. to 3 p.m. in Room 315, Willard Straight Hall. Brochures are available at Noyes Center, Robert Purcell Union, Willard Straight Hall Desk and the Day Hall Information and Referral Center. For more information, call 256-7131.

## Dance

**Every Tuesday**  
Anabel Taylor One World Room, 8-11 p.m. Israeli Folkdancing. 8-9 p.m. Instruction; 9-11 p.m. Requests. All welcome.

**Every Sunday**  
Straight North Room, 7:30-10:30 p.m. Cornell Folkdancers. Teaching 7:30-8:30 p.m. requests 8:30-10:30 p.m. Held on Wednesdays in Upson Lounge. Beginners welcome.

**Thursday**  
Feb. 16, 9-11 p.m. Anabel Taylor One World Room. Jitterbug Club. Beginners 9-10 p.m. All welcome. Call Jim at 256-3440 for more information.

## Exhibits

**Herbert F. Johnson Museum**  
"Cornell University Council on the Creative and Performing Arts Exhibition." An exhibition of works by 1982-83 recipients of Council on the Creative and Performing Arts grants, through Feb. 26. "Twenty-five Years of Discovery at Sardinia." An exhibition of photographs, maps and drawings documenting the Cornell and Harvard archeological expedition at Sardinia. Organized jointly by the Fogg Art Museum at Harvard University and the Johnson Museum. Funded by

a grant from the National Endowment for the Humanities, through Mar. 11. "Figures from Rodin's 'Gates of Hell': Sculpture From The B.G. Cantor Collections. Feb. 15 through Sun., Apr. 1. "Transitions: From Birth to Death." An exhibition of prints selected from the permanent collection illustrating stages in life: parent and child, adulthood and aging, death and dying. Through Feb. 26. Museum hours: Tuesday through Sunday, 10 a.m.-5 p.m.

**Olin Library**  
"Medieval Illuminated Manuscripts in Facsimile." Superb reproductions of sumptuous manuscripts—secular treatises on herbs, astronomy and ornithology, literary tests, Books of Hours, from the 6th to 16th centuries in Western Europe. Hours: 8 a.m.-5 p.m., Monday-Friday. Through May 1.

**Uris Library**  
"1984: Computers and Society." Hours: 8 a.m.-5 p.m., Monday-Friday. Through February 29.

## Films

Unless otherwise noted films are under sponsorship of Cornell Cinema.

**Thursday**  
Feb. 9, 8 p.m. Uris Hall Auditorium. Committee on U.S. Latin American Relations (CUSLAR) Free Film Series: "Alsino Y El Condor" The first feature-length film produced by the Sandinista Government's Nicaraguan Institute of Cinema blends youthful fantasy and political realism in an allegory of revolution and liberation. Nominated for an Oscar as Best Foreign Film of 1982.

**Friday**  
Feb. 10, 7 p.m. \*Statler. "Gandhi" (1982), directed by Richard Attenborough, with Ben Kingsley, Candice Bergen.

Feb. 10, 10 p.m. \*Uris Hall Auditorium. "Say Amen Somebody" (1982), directed by George T. Nierenberg, with Willie Mae Ford Smith, The Barrett Sisters. Co-sponsored by Black Gospel Festival.

Feb. 10, 11 p.m. \*Statler. "Dr. No" (1962), directed by Terence Young, with Sean Connery, Ursula Andress.

**Saturday**  
Feb. 11, 7 p.m. \*Statler. "Dr. No."  
Feb. 11, 8 p.m. \*Uris Hall Auditorium. "Say Amen Somebody."

Feb. 11, 9:30 p.m. \*Statler Auditorium. "Gandhi."

**Sunday**  
Feb. 12, 2 p.m. \*Uris Hall Auditorium. "Around the World in 80 Days" (1956), directed by Michael Anderson, with David Niven, Cantiflas. Co-sponsored by Ithaca Youth Bureau. Admission \$1.50 adults, \$1 children.

Feb. 12, 2 p.m. Johnson Museum. "The Other Side #1" 3 films from American Federations of Arts-New British Cinema. Free and open to the community.

Feb. 12, 8 p.m. \*Uris Hall Auditorium. "Some Like It Hot" (1959), directed by Billy Wilder, with Marilyn Monroe, Jack Lemmon.

**Monday**  
Feb. 13, 9 p.m. \*Uris Hall Auditorium. "Lacombe Lucien" (1974), directed by Louis Malle, with Pierre Blaise. Limited to Film Club members only. Memberships available at the door.

**Tuesday**  
Feb. 14, 4:30 p.m. Rockefeller D. Southeast Asia Free Film Series: "Religion in Indonesia: Way of the Ancestors." Illustrated the complex ritual order of the Toradja of Sulawesi (Celebes).

Feb. 14, 8 p.m. \*Uris Hall Auditorium. "A Man Escaped" (1956), directed by Robert Bresson, with Francois Leterico. Shown with: "Un Chant D'Amour."

**Wednesday**  
Feb. 15, 8 p.m. \*Uris Hall Auditorium. "Yol" (1982), directed by Serif Goren and Yilmaz Guney, with Tarik Akan, Serif Sezer.

**Thursday**  
Feb. 16, 8 p.m. \*Uris Hall Auditorium. "Courage to Live" (1983), directed by Ingela Romare, with Marit Anderssen, Ulf Berggren. Co-sponsored by Women's Studies.

**Friday**  
Feb. 17, 8 p.m. \*Statler Auditorium. "The Hunger" (1983), directed by Terry Scott, with David Bowie, Catherine Deneuve.

Feb. 17, 8 p.m. Risley Residential College Music Room. Free Film Series: "Pride and Prejudice" with Laurence Olivier and Greer Garson.

Feb. 17, 10 p.m. \*Uris Hall Auditorium. "The Woman Next Door" (1981), directed by Francois Truffaut, with Gerard Depardieu.

Feb. 17, 10:30 p.m. \*Statler. "Being There" (1979), directed by Hal Ashby, with Peter Sellers.

**Saturday**  
Feb. 18, 8 p.m. \*Statler. "Being There."  
Feb. 18, 8 p.m. \*Uris Hall Auditorium. "The Woman Next Door."  
Feb. 18, 11 p.m. \*Statler Auditorium. "The Hunger."

**Sunday**  
Feb. 19, 2 p.m. \*Uris Hall Auditorium. "Oliver Twist" (1948), directed by David Lean, with Alec Guinness, Robert Newton. Co-sponsored by Ithaca Youth Bureau.

Feb. 19, 2 p.m. Johnson Museum. "The Other Side #2" Films from 4 British Filmmakers-Series from American Federation of Arts-New British Cinema.

Feb. 19, 8 p.m. \*Uris Hall Auditorium. "The Apartment" (1960), directed by Billy Wilder, with Jack Lemmon, Shirley Maclaine.

## Lectures

**Thursday**  
Feb. 9, 10-11 a.m. Herbert F. Johnson Museum. Campus Club Fine Arts Series Lecture: "View of American Folk Art," Suzette Lane. A selection of works from the Permanent Collection will illustrate the talk.

Feb. 9, 12:20 p.m. 102 West Ave. Southeast Asia Program Luncheon Seminar: "Traditional Life Crisis Rituals in Modern Java," Carol Carpenter, SEAP Graduate Student in Anthropology, Cornell.

Feb. 9, 4 p.m. Fernow 304. Department of Natural Resources Seminar: "Regulation of Benthic Community Structure in a Nuclear Cooling Reservoir," Dr. James H. Thorp, Department of Natural Resources.

Feb. 9, 4:30 p.m. Morrill Hall 106. Cornell Linguistics Circle Speaker Series: "See That Hole? Dig It.," Paul J. Hopper, Professor in the Department of Anthropology, SUNY Binghamton.

**Friday**  
Feb. 10, 12:20 p.m. Morrill Hall Lounge. Cornell Linguistics Circle Speaker Series: "A Functional Basis for Linguistic Categories," Paul J. Hopper, Professor, Department of Anthropology, SUNY Binghamton.

**Wednesday**  
Feb. 15, 7:30 p.m. Anabel Taylor One World Room. America and World Community: "World Religion and World Community," Robert Johnson, Director, CURW.

**Thursday**  
Feb. 16, 10-11 a.m. Herbert F. Johnson Museum. Cornell Campus Club Fine Art Series: Lecture: "The Gates of Hell Sculptures," Tom Leavitt, Director of the Herbert F. Johnson Museum. Mr. Leavitt will speak on Rodin and his place in modern sculpture.

Feb. 16, 12:20 p.m. 102 West Ave. Southeast Asia Program Luncheon Seminar. Speaker and Topic to be announced.

Feb. 16, 4:30 p.m. Goldwin Smith Hollis E. Cornell Auditorium. "Star Wars-1984 or 2001: Is Ballistic Missile Defense Fact or Fiction?" by Richard L. Garwin, IBM Fellow, Thomas J. Watson Research Center, and A.D. White Professor-at-Large. Public Lecture.

## Meetings

**Every Thursday**  
Goldwin Smith Kaufmann Auditorium Cornell Concert Commission general meeting. All welcome.

**Every Sunday**  
Uris Hall 202, 4:30-7 p.m. Lesbian and Gay Political Action and Discussion Group.

**Every Tuesday**  
Straight Loft IV, 4:45 p.m. Third World Student Programming Board.

## Music

**Music of Many Nations**  
A series of concerts exploring the traditional music of Ireland, Scotland, Brittany, French-Canada and America will be presented this spring on campus.

Tickets for the concerts, which will be sponsored by The Commons Coffeehouse, The Cornell Council for the Creative and Performing Arts and Fine Sound Productions, are available at Ithaca Guitar Works, The Guitarist, Borealis Bookstore, Rebop Records and the Commons Coffeehouse. Reserved tickets are available by calling Beth Fein at 273-5659.

The first concert is scheduled for 8 p.m. Friday, Feb. 17, in Anabel Taylor Hall Auditorium. Appearing will be Kevin Burke and Micheal O Domhnaill with Andy Irvine. Music for the evening will be contemporary Irish, Scottish and English songs/ballads on fiddle and guitar.



Haydn baryton trios and a Bach premiere will be presented in a free concert at 4 p.m. Sunday, Feb. 12, in Barnes Hall. Featured instrumentalists will be the Haydn Baryton Trio: John Hsu, baryton, (above); David Miller, viola; Fortunato Arico, cello. They will play three of Haydn's 123 Baryton Trios: No. 49 in G Major, No. 96 in B minor and No. 50 in D Major. The second half of the concert will be devoted to the first performance of Concerto in D minor for two violas, two violas da gamba, cello, violone and cembalo, which is a transcription by Hsu of J.S. Bach's third Sonata for viola da gamba and harpsichord in G minor, BWV 1092. The concert is one of a series made possible by a generous gift from Professor Emeritus and Mrs. Thomas J. Baird. The Bach performance is made possible in part by a grant from the Cornell Council of the Creative and Performing Arts.

At 7:30 p.m. Friday, March 9, in Alice Statler Auditorium, there will be an Irish/Cajun Blast with Ireland's most popular traditional ensemble De Danann with Beausoleil from Louisiana. The PBS Masterpiece Theatre series, "The Irish R.M.," which is now being aired, features traditional music arranged and performed by De Danann.

There will be a Cajun Dance Party with Beausoleil on Saturday, March 10, at a time and location to be announced.

Touchstone, featuring Triona Ni Dhomhnaill, will appear at 8:30 p.m. Saturday, April 7, in Anabel Taylor Hall Auditorium. The concert will feature old-time, bluegrass, Nova Scotian and Irish blend music.

The final concert of the series will be presented at 8 p.m. Friday, May 4, in Anabel Taylor Hall Auditorium. Performing will be Erigite from Montreal. Traditional Quebecoise and contemporary Canadian folk songs will be presented.

For further information on the series contact Beth Fein at 273-5659.

**Sunday**  
Feb. 12, 4 p.m. Barnes Hall. Baryton Trios: John Hen, baryton and viola da gamba; David Miller, viola; Fortunato Arico, cello; and assisting instrumentalists. Works of Haydn, Bach.

**Tuesday**  
Feb. 14, 4:30 p.m. Lincoln Hall 116. Lecture by

Gary Tomlinson: "Monteverdi and the End of the Renaissance."

#### Friday

Feb. 17, 8 p.m. \*Anabel Taylor Auditorium. Kevin Burke and Micheal O Domhnaill with Andy Irvine. A magical evening of Celtic music on fiddle and guitar. Contemporary Irish, Scottish, and English songs/ballads. Tickets \$5 advance; \$6 at the door. Available at The Ithaca Guitar Works, The Guitarist, Borealis Bookstore, The Commons Coffeehouse, Rebop Records in Collegetown.

#### Saturday

Feb. 18, 8:15 p.m. Barnes Hall. Song Recital: Christine Schadeberg, soprano, and Joel Feigin, piano. Works of Handel, Debussy, Schubert, Feigin.

#### Sunday

Feb. 19, 4 p.m. Barnes Hall. Student Chamber Music. Works of Brahms, Beethoven.

## Religious Activities

#### Sunday

Feb. 12, 11 a.m. Anabel Taylor One World Room. There will be a Bagel Brunch co-sponsored by Hillel and Young Israel. Speaker: Rabbi Ze'ev Kraines, Cornell '76, Lecturer at Ohr Somayach/ Neve Yerushalayim, Jerusalem, Israel, and Director, Jewish Learning Exchange, Monsey, NY.

#### Friday

Feb. 17, 8:15 p.m. Anabel Taylor One World Room. "Between Invisibility and Overvisibility: Anti-Semitism in the Women's Movement and Beyond," Evelyn Torton Beck, University of Wisconsin-Madison.

#### Monday

Feb. 13, 12:30-5:30 p.m. Anabel Taylor G-34. Anita Avital, shlicha, Israel Aliyah Office, New York will be here to discuss summer programs, co-op, semester in Israel. Call 256-4227 for an appointment.

## Religious Services

#### Friday

Feb. 10, 5:30 p.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian).

Feb. 10, 5:30 p.m. Anabel Taylor Chapel. Shabbat Services (Reform).

Feb. 10, 5:30 p.m. Shabbat Services (Orthodox). Call 272-5810 for information. Shabbat Services will be followed by a special Oneg Shabbat sponsored by the Reform Minyan in Anabel Taylor Founders Room.

#### Saturday

Feb. 11, 9:15 a.m. Anabel Taylor Edwards Room. Shabbat Services (Orthodox).

Feb. 11, 10 a.m. Anabel Taylor Founders Room. Shabbat Services (Conservative/Egalitarian).

#### Sunday

Feb. 12, 11 a.m. Sage Chapel. Interreligious Service Speaker: Daniel Sisler, Professor of Agricultural Economics, Cornell.

#### Sunday

Feb. 19, 11 a.m. Sage Chapel. Eighth Annual Festival of Black Gospel. Bernard LaFayette, Jr., Dean of Graduate Studies, Alabama State University, Montgomery, AL.

## Seminars

**Applied Mathematics:** "Scaling Transformations on (0,1)Z," G.L. O'Brien, York University and Cornell, 4 p.m. Friday, Feb. 17, 165 Olin Hall.

**Astronomy and Space Sciences:** "Violent Motions in Orion and the Possible Role of Low Mass Stars," Sarah Beck, 4:30 p.m. Thursday, Feb. 9, 105 Space Sciences Building.

**Atomic and Solid State Physics: Solid State Seminar:** "Chemisorption on Metal Surfaces: H/Ni(100)," Cyrus Umrigar, 4:30 p.m. Tuesday, Feb. 14, 700 Clark Hall.

**Atomic and Solid State Physics: Theory Seminar:** "Curved Space Lattice Models for Amorphous Semiconductors," David P. DiVincenzo, 1:15 p.m. Thursday, Feb. 16, 701 Clark Hall.

**Biophysics:** "Patch Clamp Studies of Nicotinic Acetylcholine Receptors," Anthony Auerbach, SUNY Buffalo, 4:30 p.m. Wednesday, Feb. 15, 700 Clark Hall.

**Biochemistry:** "Genetic Studies in Bacillus," Stanley Zahler, 4:30 p.m. Friday, Feb. 10, 204 Stocking Hall.

**Floriculture and Ornamental Horticulture:** "The Plant Collections and Landscape Art of Roberto Burle Marx (Brazil)," Andrew Durhan, 12:15 p.m. Thursday, Feb. 9, 404 Plant Science.

**Floriculture and Ornamental Horticulture:**

"Rootstocks for Fruit Tree Species," James Cummins, 12:15 p.m. Wednesday, Feb. 15, 37 Plant Science Building.

**Food Science:** "Production of Foods and Chemicals from Biomass Fermentation," W. Vergara, Organization of American States, 4:30 p.m. Tuesday, Feb. 14, 204 Stocking Hall.

**General Chemistry:** "Chemical Vapor Deposition of Inorganic Thin Films," Roy Gordon, Harvard University, 4:40 p.m. Thursday, Feb. 16, 119 Baker Laboratory.

**Genetics/Biotechnology Program:** "Expression of the Dopa Decarboxylase Gene When Reintegrated into the Drosophila Germline," J. Hirsh, Harvard Medical School, 12:20 p.m. Monday, Feb. 12, 135 Emerson Hall.

**Geological Sciences:** "Ultramafic Volcanism on Gorgona Island, Colombia," L. Echeverria, Corning Glass Works, 4:30 p.m. Wednesday, Feb. 15, 203 Thurston Hall.

**JUGATAE:** "Hunting and Next Provisioning in Clypeadon laticinctus (Hymenoptera, Sphecidae)," Byron Alexander, 4 p.m. Monday, Feb. 13, 100 Caldwell.

**Materials Science and Engineering:** "Corrosion Behavior of Ion Implanted Amorphous Surface Alloys," C. Clayton, SUNY Stony Brook, 4:30 p.m. Thursday, Feb. 9, 140 Bard Hall.

**Materials Science and Engineering:** "Viscous Sintering of Gels," G. Scherer, Corning Glass, 4:30 p.m. Thursday, Feb. 16, 140 Bard Hall.

**Mechanical and Aerospace Engineering:** "The Vortex Sheet Model for Resonance in Incompressible Shear Flow," Paul A. Durbin, NASA/Lewis Research Center, 4:30 p.m. Tuesday, Feb. 14, 292 Grumman.

**Natural Resources:** "Production and Peat Accumulation in a Sphagnum Wetland in West Virginia," Joseph Yavitt, West Virginia University, 4 p.m. Thursday, Feb. 16, 304 Fernow.

**Neurobiology and Behavior:** "Social Foraging by Honeybees: Decision Making, Division of Labor and Energetics," Thomas Seeley, Yale University, 12:30 p.m. Thursday, Feb. 9, Morison Seminar Room, Corson-Mudd Hall.

**Neurobiology and Behavior:** "Patch Clamp Studies of Nicotinic Acetylcholine Receptors," Anthony Auerbach, SUNY Buffalo, 4:30 p.m. Wednesday, Feb. 15, 700 Clark Hall.

**Nutritional Sciences:** "Factors Associated with Poor Growth in Children from Developing Countries: Research Findings and Policy Implications," Raynaldo Martorell, 4:30 p.m. Monday, Feb. 13, 100 Savage Hall.

**Ornithology:** "Current Status and Future Management of Common Terns on the St. Lawrence River," Gerald Smith, Derby Hill Bird Observatory, 7:45 p.m. Monday, Feb. 13, Stuart Observatory, Lab. of Ornithology, Sapsucker Woods Rd.

**Physiology:** "Development of Thermoregulation in the Fetus," Peter Gluckman, University of Auckland, 4:30 p.m. Tuesday, Feb. 14, G-3 Vet. Research Tower.

**Plant Biology:** "Microtubules and Morphogenesis in Azolla," Brian Gunning, National University (Australia), 11:15 a.m. Friday, Feb. 10, 404 Plant Science Building.

**Plant Biology,** "The Role of Transfer Trichomes in the Life Cycle of Azolla-Anabaena Symbiosis," Harry Calvert, Charles F. Kettering Laboratory, 11:15 a.m. Friday, Feb. 17, 404 Plant Science Building.

**Plant Pathology:** "Etiology and Control of Two Root Disease Complexes: Subterranean Clover Decline in Australia, and Fusarium Blight Syndrome of Kentucky Bluegrass in New York," Richard Smiley, 4:30 p.m. Tuesday, Feb. 14, 404 Plant Science Building.

**Psychology:** "Evolution of the Vertebrate Telencephalon," R. Glenn Northcutt, University of Michigan, 3:30 p.m. Friday, Feb. 10, 202 Uris Hall.

**Remote Sensing:** "The Adirondack Park Agency Digital G.I.S.," Raymond P. Curran, Adirondack Park Agency, and Keith A. Wheeler, USDA Soil Conservation Service, 4:30 p.m. Wednesday, Feb. 15, B-14 Hollister Hall.

**Theoretical and Applied Mechanics:** "Macro-mechanics of Brittle Failure in Compression: Theory and Experiment," Sia Nemat-Nassar, Northwestern University, 4:30 p.m. Thursday, Feb. 16, 205 Thurston Hall.

**Toxicology:** "Animal Models for the Study of Alcohol-Nutrient Interactions," Daphne Roe, 12:20 p.m. Friday, Feb. 10, 100 Savage Hall.

**Vegetable Crops:** "Wine Evaluation Techniques," Thomas H. E. Cottrell, 4:30 p.m. Thursday, Feb. 9, 404 Plant Science Building.

**Vegetable Crops:** "Produce Quality at Roadside Markets," Robin A. Cohen, 4:30 p.m. Thursday, Feb. 16, 404 Plant Science Building.

## Sports

#### Friday

Feb. 10, 5 p.m. Teagle. Men's Wrestling-Yale.  
Feb. 10, 7:30 p.m. Oxley Polo Arena. Women's PoloConnecticut.

Feb. 10, 7:30 p.m. \*Lynah. Men's Hockey-Dartmouth.

Feb. 10, 7:30 p.m. Barton. Women's BasketballPennsylvania.

#### Saturday

Feb. 11, 11 a.m. Teagle. Men's Fencing-Harvard.

Feb. 11, 1 p.m. Teagle. Men's Wrestling-Harvard.

Feb. 11, 1 p.m. Barton. Women's Track-Yale.

Feb. 11, 1 p.m. Teagle. Women's Fencing-Harvard.

Feb. 11, 6 p.m. Helen Newman. Men's JV BasketballBinghamton.

Feb. 11, 7:30 p.m. \*Lynah. Men's Hockey-Clarkson.

Feb. 11, 8:15 p.m. Oxley Polo Arena. Men's PoloConnecticut.

#### Sunday

Feb. 12, 3 p.m. Helen Newman. Women's BasketballPrinceton.

Feb. 12, 8 p.m. Lynah. Men's JV Hockey-Sheridan College.

#### Monday

Feb. 13, 3:30 p.m. Lynah. Men's JV Hockey-Sheridan College.

#### Tuesday

Feb. 14, 7 p.m. Helen Newman. Men's JV BasketballHobart.

#### Wednesday

Feb. 15, 7:30 p.m. Lynah. Women's Hockey-RIT.

#### Friday

Feb. 17, 6 p.m. Barton. Men's JV Basketball-Cortland.

Feb. 17, 8 p.m. \*Barton. Men's Varsity BasketballYale.

#### Saturday

Feb. 18, 2 p.m. \*Lynah. Men's JV Hockey-Welland Bulls Hockey Club.

Feb. 18, 2 p.m. Teagle. Men's Wrestling-Columbia.

Feb. 18, 7 p.m. \*Barton. Men's Varsity BasketballBrown.

Feb. 18, 8:15 p.m. Oxley Polo Arena. Women's PoloUnadilla.

# Graduate Bulletin

**Reminder:** Tomorrow, February 10 is the deadline for completion of all degree requirements for doctoral students who wish to avoid paying the active-file fee of \$200 for the spring term.

Friday, February 10, is also the deadline for turning in course registration forms at Sage Graduate Center.

Fall 1983 grades for graduate students are still available at Sage Graduate Center.

**GRADUATE FACULTY REPRESENTATIVES** are reminded that their nominations for the General Fellowship Competition and the Special Fellowship Competition, Round I, must be received at the Fellowship Office, 116 Sage Graduate Center, by noon, Monday, February 13. Forthcoming fellowship deadlines are listed below.

**March 5:** U.S. Department of Education Indian Fellowship Program—Applicants must be an Indian as defined in the application, a United States citizen, and currently in attendance or accepted for admission as a full-time graduate student at an accredited institution in one of the following fields: education, medicine, law, and related fields; engineering, business administration, natural resources and related fields. Applicants must have demonstrated financial aid need. One hundred and six fellowships between \$2500 and \$8500 will be awarded. Applications may be obtained by writing: David Jackson, Indian Education Programs, U.S. Department of Education, Room 2177, 400 Maryland Avenue, S.W., Washington, DC 20202.

**March 9:** New York State Herbert H. Lehman Graduate Fellowships—Available to students in social sciences, public affairs, and international affairs. Programs for study of law, social work, psychology, business education, or theology, or a program combining any of the foregoing fields with a second, eligible field are not eligible. Applicants must have been a legal resident of the United States since September 1983, have received the baccalaureate degree not later than September 1984, and have not yet entered upon

any graduate study prior to July, 1984. Recipients must be in an approved program leading to a master's degree or to a doctoral degree. Awards provide a total stipend of \$19,000; \$4,000 for the first year of graduate study and \$5,000 per year thereafter for a maximum of four years of fellowship support. Thirty awards will be made. Applications may be obtained at the Fellowship Office, 116 Sage Graduate Center, Cornell University or by writing: The State Education Department, Bureau of Higher Professional Educational Testing, Cultural Education Center, Albany, NY 12230, (518) 474-6394.

**March 15:** Business and Professional Women's Clubs-Grace Legendre Fellowships—Candidates must be women who are residents of New York State and U.S. citizens; have a Bachelor's degree, be currently registered full time at an accredited New York State college or university, show evidence of scholastic ability and need for financial assistance. Fellowships are for \$1000. Qualified candidates should submit a brief resume regarding the above with a request for application to: Betty O'Connor, Chairman, RR2, Box 2418, Lake Shore Drive, Lake George, NY 12845. Applications are available through February 15, 1984.

**March 15:** Kate Neal Kinley Fellowship—Available to students in architecture, art, music. Preference will be given to applicants who have not reached their twenty-fifth birthday. The fellowship yields the sum of \$4,500 which is to be used by the recipient toward defraying the expenses of advanced study of the Fine Arts in America or abroad. Only one fellowship is granted each year. Applications and more information may be obtained by writing: Kate Neal Kinley Fellowship, 608 East Lorado Taft Drive, Champaign, IL 61820.

# Barton Blotter

Some \$4,802 worth of cash and valuables were reported stolen on campus, three persons referred to the Judicial Administrator, and one person was arrested for DWI, according to the morning reports of the Department of Public Safety for the period Jan. 30 through Feb. 5.

Two persons were referred to the J.A. for stealing a \$200 chair from Robert Purcell Union, while a third was charged with forging a parking permit.

The largest single theft in terms of dollars was \$1,510 worth of stereo equipment from 109 McGraw Place. Other thefts included a \$245 ring and \$223 ring stolen from a display table in the Campus Store, a \$650 specialty hacksaw was stolen from the Geological Sciences construction site and an \$800 oriental rug was stolen from the main floor of 6 South Avenue.

A backpack with \$263 in cash and valuables was reported stolen from Teagle Hall as were two wallets, one with \$81 and the other with \$45 in cash and valuables.

Laundry worth \$98 was taken from a dryer on the second floor of Hughes Hall.

Safety reported a number of other items recovered during the week, including \$20 in cash and checks, a \$170 camera and a \$20 telephone. In all there were 20 thefts reported.

## Sponsored Programs

The New York State Council on the Arts has announced its annual deadline of March 1, 1984 (postmark date).

NYSICA has four divisions encompassing 13 programs.

Interested applicants may obtain information about the Council's programs, guidelines and forms from the Office of Sponsored Programs Library, 115 Day Hall.

## United Way Correction

The totals of the 1983 United Way campus drive, as reported in the Jan. 19 issue of the Chronicle, should have listed Biological Sciences at 91.7 percent of that division's campaign goal, rather than 9.17 percent.

# Cornell University

**University Personnel Services  
Day Hall  
Ithaca, New York 14853  
607/256-5226**

**Please Note:**

**Job Opportunities** is a publication of Staffing Services and is distributed each Thursday through the **Cornell Chronicle**. Applications for employment can be submitted through the mail. Application forms

are available by the posted **Job Opportunities** listing at 130 Day Hall. For more information on jobs listed, contact Staffing Services, 130 Day Hall, (607) 256-5226.

**Employee Transfer Applications:** Employees who wish to transfer to other jobs within the University should complete a separate Employee Transfer Application form for each position and submit them to Staffing Services. Individuals with official University layoff status will be given preference in referrals.

In response to the Employee Survey, individual copies of **Job Opportunities** will be available for all employees; complete job posting will be published Thursday of each week in the **Chronicle**. Consequently, the list will no longer be published in its previous form.

This listing is also available on **CUINFC**, Cornell University's computerized information service, along with campus bus,

movie, dining facility and library schedules. Each regular Cornell employee is entitled to a free computer account. For further **CUINFO** details, contact the Information and Referral Center at 256-6200 or Computer Services.

Selected job announcements are broadcast on Channel 13 television each Tuesday at 9:30 a.m. and 7:15 p.m. and each Friday at 11 a.m. and 5:15 p.m.

New vacancies are listed for two weeks in **Job Opportunities**.

\*Asterisks identify jobs that were not listed last week.

Full-time jobs are 39 hours per week unless otherwise indicated. Jobs listed as SO, U1 and U2 are represented by bargaining units.

\*Asterisks identify jobs that were not listed last week.

# Job Opportunities

Cornell University is an equal opportunity, affirmative action employer.

## Administrative/Professional

**\*Position: Assistant Trades Supervisor**  
**Department:** Maintenance and Service Operations

**Description:** Assist in the supervision of the Mechanical Maintenance Shop (18 Maintenance Mechanics) and management of the University Preventive Maintenance Program. Help establish a computer-based preventive maintenance management system.

**Requirements:** Associate's degree or equivalent in mechanical technology with courses in business administration. Considerable experience in the operation and maintenance of a great variety of mechanical equipment found on campus; some computer background and understanding of basic accounting practices is preferred.

**Hiring Range:** \$23,000-\$25,000  
**Job Number:** P066

**\*Position: Director**  
**Department:** Minority Educational Affairs (COSEP)

**Description:** Under general direction, provide professional leadership for a wide range of services geared for minority students, including the Office of State Programs (EOP/HEOP), academic and personal advising, career planning and placement, academic and activities programming or financial aid through consultation with or coordination of other University offices and units of student affairs.

**Requirements:** Master's degree or equivalent experience in education, student personnel administration, counseling. 5-7 years experience in minority educational affairs. Verbal and written communication skills. Application deadline is February 20, 1984.

**Hiring Range:** \$20,000-\$33,100  
**Job Number:** P067

**\*Position: Director**  
**Department:** Financial Aid

**Description:** Provide overall direction and leadership with administrative responsibility for the University's financial aid and student employment programs. Provide major input into the planning, development and analysis of financial aid policies and procedures.

**Requirements:** Master's degree or equivalent experience in higher education administration, finance, business administration or student personnel administration. 5-7 years experience in student financial aid or appropriate administrative positions in higher education. Verbal and written communication skills. Supervisory/management experience preferred. Familiarity with computer systems. Application deadline is February 20, 1984.

**Hiring Range:** \$20,000-\$33,100  
**Job Number:** P068

**\*Position: Community Relations Coordinator**  
**Department:** Johnson Museum  
**Description:** Plan, organize and direct all aspects of the membership program. Act as Museum liaison with Public Affairs and Develop-

ment Offices. Coordinate news releases and publicity events. Coordinate Museum's grant proposal procedures.

**Requirements:** Bachelor's degree or equivalent. Development/public relations experience required. Strong interpersonal, organizational, written and oral skills. Experience or training in museum administration desirable. Knowledge of art preferred. Send cover letter and resume by February 20, 1984.

**Hiring Range:** \$12,500-\$20,700  
**Job Number:** P061

**\*Position: Production Supervisor**  
**Department:** Graphic Arts Services

**Description:** Provide supervisory and management support in production area of Print Shop. Delegate work assignments, assist in production control, job planning, costing, quality control and problem solving. Other relevant duties as required.

**Requirements:** Associate's degree or equivalent. Formal graphic arts course work desirable. At least 3-5 years related print production experience. Minimum of one year supervisory experience. Excellent organizational, interpersonal and communication skills required.

**Hiring Range:** \$12,500-\$20,700  
**Job Number:** P065

**\*Position: Research Support Specialist I**  
**Department:** Agronomy

**Description:** Assist the project leaders in the implementation of a study designed to assess the long term impacts of soil erosion on corn yields. Responsible for computer modeling, soil water monitoring, soil sampling, yield data collection and preparation of progress reports.

**Requirements:** Master's degree or equivalent in soil physics/soil hydrology. Knowledge of computer languages such as Basic, PL/1 or Fortran and computer modeling techniques.

**Hiring Range:** \$12,500-\$20,700  
**Job Number:** P064

**\*Position: Staff Writer II**

**Department:** Media Services

**Description:** Gather information and write copy for fund raising, student recruitment, alumni and publication sales brochures; write feature newspaper articles; write and edit scripts for slide presentations.

**Requirements:** Bachelor's degree or equivalent. Writing experience, preferably in fund raising, higher education or advertising. Send cover letter, writing samples and resume by March 1, 1984.

**Hiring Range:** \$12,500-\$20,700  
**(Job Number: P062)**

**\*Position: Administrative Manager I**  
**Department:** Shoals Marine Laboratory

**Description:** Business Manager. In general, manage nonacademic activities of the Shoals Marine Laboratory, a summer marine educational program, including but not limited to budgeting, accounting, fund raising, material procurement, public relations, supervision and summer logistics.

**Requirements:** Bachelor's degree or

equivalent in business or related field required. Master's degree or equivalent desired. At least five years supervisory experience required. Marine science background desirable. Proven record of working satisfactorily with groups of people in an educational context. Send cover letter, resume and completed employment application to Staffing Services.

**Hiring Range:** \$12,500-\$20,700  
**Job Number:** P052

## Clerical

**All applicants interested in positions requiring typing must take an official university test. Tests are given Mondays and Wednesdays at 8:10 a.m., Room 337, Statler Hall. Please contact Staffing Services for an appointment.**

**\*Position: Secretary, GR20**

**Department:** Administrative Services - CALS  
**Description:** Provide

administrative/secretarial support for administrative office. Duties include typing; scheduling appointments; answering telephone; processing confidential materials; other duties as assigned.

**Requirements:** H.S. education or equivalent. Business or secretarial school preferred. Medium typing. Extensive secretarial/administrative experience. Strong organizational, interpersonal and communication (written and oral) skills. Ability to work in a complex, active environment. Knowledge of word processors desirable. Knowledge of statutory colleges helpful.

**Hiring Range:** \$11,180-\$13,606  
**Job Number:** C063

**\*Position: Administrative Aide, GR20**

**Department:** Computer Services

**Description:** Duties include typing (including equations); using word processing or computerized text formatting system; arranging meetings; making travel arrangements; tracking departmental accounts; preparing purchase orders and vouchers; dealing with vendors. Other duties as assigned. Full-time (9:00 a.m. - 5:30 p.m., flexible) until August 31, 1984.

**Requirements:** H.S. education or equivalent. Business or secretarial school preferred. Light typing. Administrative/secretarial experience. Word processing experience desirable. Good arithmetic skills. Strong organizational, interpersonal and communication (written and oral) skills. Attention to detail and accuracy.

**Hiring Range:** \$11,180-\$13,606  
**Job Number:** C061

**\*Position: LC Cataloger, GR20**

**Department:** ILLR - M.P. Catherwood Library

**Description:** Cataloging and recataloging monographs and serials with copy utilizing RLIN on-line cataloging system; inputting monographic and serial records to RLIN data base; training and supervising student assistants including the revision of their work; other duties as assigned. Monday - Friday, 8:15 a.m.-5:00 p.m., may require some evening and weekend work.

**Requirements:** H.S. education or equivalent with at least three years of relevant technical services experience or college education with at

least one year of relevant technical services experience. Subject background in social sciences helpful. Knowledge of MARC tagging; experience with computer searching and inputting techniques and cataloging procedures; familiarity with OCLC and/or RLIN on-line cataloging systems. Absolute accuracy and ability to handle details with discretion and judgment.

**Hiring Range:** \$11,180-\$13,606  
**Job Number:** C062

**\*Position: Administrative Aide, GR19**  
**Department:** Career Center

**Description:** Provide support to the Health Careers Program and the Credential Service of the Career Center. Duties include preparing confidential materials on behalf of students; interacting with faculty and students; overseeing small Health Careers library; coordinating major events with visiting medical schools; providing general secretarial support. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Associate's degree preferred. College course work in statistics desirable. Heavy typing. Secretarial experience. Ability to work with minimum supervision. Ability to handle confidential materials with discretion. Strong organizational, interpersonal and communication skills.

**Hiring Range:** \$10,595-\$12,852  
**Job Number:** C064

**\*Position: Office Assistant, GR18**

**Department:** Clinical Sciences

**Description:** Front desk reception and gathering client history and patient case information; answering and transferring large volume of client and information phone calls; operating computer terminal for medical records functions; handling discharge of patients and cashiering.

**Requirements:** H.S. education or equivalent; some college desirable. Light typing. Knowledge of medical terminology; ability to work independently; ability to work in a complex, active environment. Strong organizational, interpersonal and communication skills.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** C066

**\*Position: Secretary, GR18**

**Department:** International Agriculture

**Description:** Provide secretarial support to the Program in International Agriculture and the Program Training Office relating to projects abroad and sponsored training on and off campus. Duties include making travel arrangements; typing; filing; answering telephone. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Business or secretarial school preferred. Heavy typing. Familiarity with Cornell procedures desired. Strong organizational, interpersonal and communication (written and oral) skills. Familiarity with Xerox 860 word processor desirable.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** C0613

**\*Position: Searcher, GR18**

**Department:** Olin Library - Acquisitions  
**Description:** Search monograph orders and books for the Library system. Search card catalogs, national and trade bibliographies, OCLC and RLIN automated systems, in-process status list and other files for bibliographic information. Input records for new books and orders in RLIN data base. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Associate's degree or equivalent preferred. Medium typing. Good reading knowledge of German. Previous library technical services experience desirable. Strong organizational, interpersonal and communication skills.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** C0614

**\*Position: Secretary, GR18**

**Department:** Hudson Valley Laboratory  
 Highland, NY

**Description:** Duties include typing and processing letters, manuscripts and routine forms; maintaining accurate expenditure records; greeting visitors and referring them to staff members or other agencies; answering inquiries on the phone and in person; sorting mail; making travel reservations for staff members; assisting with preparations for meetings. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Business or secretarial school preferred. Course work in accounting desirable. Medium typing. Secretarial experience. Strong organizational, interpersonal and communication (written and oral) skills.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** C065

**\*Position: Office Assistant, GR17**

**Department:** University Press

**Description:** Provide receptionist/secretarial support for Sales Department. Duties include distribution of mail, switchboard operation; typing; filing. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Course work in business desirable. Medium typing. Some office experience. Good interpersonal and communication skills. Attention to detail.

**Hiring Range:** \$9,492-\$11,500  
**Job Number:** C068

**\*Position: Secretary, GR17**

**Department:** Residence Life

**Description:** Provide secretarial, receptionist and clerical support for Assignment and Summer Housing Office. Assist with housing arrangements for summer conferences, coordinate the room telephone system in the residence halls, handle office mail, answer telephones, perform typing and computer data entry.

**Requirements:** H.S. education or equivalent. Medium typing. Some office experience. Strong interpersonal, organizational and communication (written and oral) skills. Good telephone skills. Experience in computer data entry desirable.

**Hiring Range:** \$9,492-\$11,500  
**Job Number:** C069

**\*Position: Secretary, GR17**

**Department:** Admissions Office

**Description:** Receptionist duties

include greeting visitors; handling telephone calls on main Admissions lines; acting as information source to visitors and callers. Secretarial duties include maintaining files; typing routine correspondence, forms; responding to requests for campus visits; maintaining inventory of printed materials in office for Admissions Counselor.

**Requirements:** H.S. education or equivalent. Medium typing. Some secretarial experience. Excellent telephone skills. Ability to deal well with a wide variety of people.

**Hiring Range:** \$9,492-\$11,500  
**Job Number:** C0618

**\*Position: Secretary, GR17**

**Department:** Biochemistry, Molecular and Cell Biology

**Description:** Provide clerical support to department. Duties include acting as section receptionist; directing visitors; answering inquiries on the phone and in person; distributing mail; acting as key operator for Xerox 8200 and small Royal copier; ordering and stocking office supplies; filing; running errands. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Medium typing. Some office experience. Strong organizational, interpersonal and communication skills. Ability to work under pressure.

**Hiring Range:** \$9,492-\$11,500  
**Job Number:** C067

**\*Position: Secretary, GR16**

**Department:** School of Hotel Administration

**Description:** Provide secretarial support for

the Properties Management department. Duties include typing; filing; xeroxing; acting as receptionist; answering inquiries on the phone and in person; making appointments. Other duties as assigned.

**Requirements:** H.S. education or equivalent. Some office experience. Medium typing. Strong organizational, interpersonal and communication skills. Knowledge of or willingness to learn word processing helpful.

**Hiring Range:** \$9,040-\$10,881  
**Job Number:** C0615

**\*Position: Administrative Aide, GR21**

**Department:** ILR Extension - Albany, NY

**Description:** Administer and coordinate activities for the Human Resources Development Program in Albany. Work closely with the Co-Director and Administrative Manager of the Program in supervising work flow; troubleshooting; record keeping; preparing project publications; developing basic computer programs; preparing correspondence, class rosters, contracts, vouchers. Full-time, regular, until 12/31/84.

**Requirements:** Associate's degree or equivalent in secretarial science, administrative science or business. Heavy typing. At least five years experience in a professional setting with specific work in project coordination, computer operation and word processing. Knowledge of word processor/personal computers and shorthand.

**Hiring Range:** \$11,875-\$14,412  
**Job Number:** C051

**Position: Secretary, GR18**

**Department:** University Development

**Description:** Provide

administrative/secretarial assistance to office of Estate Affairs. Duties include typing correspondence; answering telephones; keeping records; mailings; preparing records; arranging travel and meetings.

**Requirements:** H.S. education or equivalent. Medium typing. Some secretarial experience. Bookkeeping/accounting experience desirable. Strong organizational, interpersonal and communication (written and oral) skills. Knowledge of shorthand.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** C052

**Position: Secretary, GR18**

**Department:** Bursar's Office

**Description:** Type departmental letters, reports and referrals. Operate Olivetti ET 231 memory typewriter; maintain correspondence file; set up appointments; act as receptionist; process mail and student payments; gather information for Bursar reports and compile statistical reports; assist in various areas of the Bursar's operation.

**Requirements:** H.S. education or equivalent. Secretarial science training desirable. Heavy typing. Some experience in general office work. Good mathematical, statistical reporting and grammar skills.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** C053

### General Service

**\*Position: Custodian, SO16**

**Department:** Residence Life Monday - Thursday, 7:30 a.m. - 4:30 p.m.; Fridays 7:30 a.m. - 3:00 p.m.

**Description:** Perform general maintenance and custodial care of buildings and grounds in immediate vicinity of assigned area.

**Requirements:** Ability to use a variety of heavy power operated equipment, climb an 8' ladder and lift 50 lbs.

**Hiring Range:** \$4.30/hour  
**Job Number:** S061

### Technical

**Applications for Technical positions should include the following information:**

- Scientific/technical courses completed;
- Lab techniques and/or equipment (knowledge of)
- Special skills (e.g. knowledge of computer language)

**\*Position: Technician, GR22 (Repost)**

**Department:** Avian and Aquatic Animal Medicine

**Description:** Diagnostic and research procedures involved in the study of diseases of pet, exotic and wild avian species including the collection of clinical and post-mortem samples; preparing hematological and cytological specimens for histopathologic evaluation; performing virological, chlamydiological, bac-

teriological, serological, immunofluorescent, ultrastructural and other tests for research and diagnostic purposes; assist as needed in teaching laboratories.

**Requirements:** Bachelor's degree in biological or biomedical field. Two years experience in an applied biomedical or pathobiological context.

**Hiring Range:** \$12,515-\$15,239  
**Job Number:** T353

**\*Position: Technician, GR19**

**Department:** Division of Nutritional Sciences

**Description:** Provide technical support in a nutrition and cancer lab. Assay samples, calculate values and assist with tissue/animal studies. Full-time, temporary (at least six months, possibility of extension).

**Requirements:** Bachelor's degree or equivalent in biochemistry, nutrition or related field. Familiarity with basic biochemical lab techniques. Knowledge of handling blood materials aseptically. Some experience with enzymatic assays and with spectrophotometer. Must be able to work with lab animals.

**Hiring Range:** \$10,595-\$12,852  
**Job Number:** T061

**Position: Machinist, GR22-26**

**Department:** Lab of Nuclear Studies

**Description:** Machining and assembly of highly sophisticated experimental apparatus using precision machine tools and inspection equipment. Work from detailed drawings or rough sketches. Set up and operate equipment; fabricate parts and assemblies to very close tolerances; maintain and repair equipment; create form tools and drill fixtures. Perform other duties as assigned.

**Requirements:** H.S. education or equivalent, apprenticeship or equivalent experience. Course work in algebra and trigonometry desired. Shop math required. Some to considerable experience as a machinist or related activity. Able to apply algebra and trigonometry to shop situations.

**Hiring Range:** \$12,515-\$19,129  
**Job Number:** T050

**Position: Electronics Technician, GR22**

**Department:** Computer Science

**Description:** Provide technical support services for the Computer Science Department Computing Facility. Responsible for scheduling and coordinating all computer equipment maintenance for the facility. Running computer hardware diagnostics. Providing terminal and hardware maintenance.

**Requirements:** Associate's degree or equivalent in electronics or computer technology. Some experience in electronic circuit construction, electronic and computer equipment maintenance, small amount of computer programming preferred.

**Hiring Range:** \$12,515-\$15,239  
**Job Number:** T051

**Position: Technician, GR18**

**Department:** Diagnostic Laboratory

**Description:** Perform clinical research involving procedures as outlined in protocol of project, control of Mycoplasmas, Ureaplasmas, Haemophilus somnus and Campylobacter fetus in extended bull semen. Full-time until 8/31/84.

**Requirements:** Bachelor's degree or equivalent in biology, microbiology or a related field. Basic lab skills including pipetting, sterile techniques; some bacteriology desirable.

**Hiring Range:** \$10,000-\$12,163  
**Job Number:** T052

### Part-time

**\*Position: Secretary, GR17**

**Department:** Psychology

**Description:** Provide secretarial support for several faculty and to department library and colloquium committees. Duties include typing; filing; transcribing from tapes; filling in for department receptionist as required; providing back-up for work overflow. Other duties as assigned. Monday -Friday, 5 hours/day to be arranged.

**Requirements:** H.S. education or equivalent. Business or secretarial school preferred. Medium typing. Some secretarial experience. Strong organizational, interpersonal and communication (written and oral) skills. Transcription from dictaphone.

**Hiring Range:** \$9,492-\$11,500/annual equivalent  
**Job Number:** C0616

**\*Position: Announcer/Engineer, GR17**

**Department:** WCU Radio

**Description:** Read commercials, play records, tapes, cartridges; operate audio visual console and announce musical selections. 20 hours/week.

**Requirements:** Restricted Radiotelephone Operator permit (FCC required). H.S. education or equivalent, some communication course work

desired. Audition and broadcast experience required. Audio production skills. Knowledge of FCC rules and regulations. Must be available nights, weekends and holidays.

**Hiring Range:** \$9,492-\$11,500/annual equivalent  
**Job Number:** S062

**Position: Research Support Specialist I**

**Department:** Division of Nutritional Sciences

**Description:** Assist Project Supervisor with the evaluation of the New York State EFNEP Food Stamp Program. Write and pretest evaluation questionnaire; train and supervise people collecting data (six sites in rural/urban New York as well as New York City); use statistical packages to analyze data; prepare data analysis summaries for project reports. 20 hours per week, February 1 - July 31, 1984.

**Requirements:** Master's or equivalent in nutrition or nutritional biochemistry. Willing to travel. Ability to use computer's statistical packages.

**Hiring Range:** \$12,500-\$20,700/annual equivalent

**Job Number:** P051

### Temporary

**In addition to regular, part-time opportunities, Temporary (less than six months) positions, both full-time and part-time, are available. Although many openings are clerical, there are often positions offered in other areas. As Temporary openings do not always appear in this listing, please contact Staffing Services for more information.**

**Position: Temporary Technician, T-3**

**Department:** Microbiology

**Description:** Maintain supplies and carry out immunological and bacteriological techniques for a research group; assist in bovine immunity. Duties include handling experimental animals such as mice. Full-time, temporary, for six months.

**Requirements:** Associate's degree or equivalent in biology, preferably microbiology. Some experience in immunology or microbiology desirable. Good organizational skills and willingness to work with experimental animals.

**Hiring Range:** \$5.00/hour  
**Job Number:** T053

### Academic

**Please contact department directly.**

**\*Position:** (Assistant or Associate Professor of Agricultural Economics (Management Information Systems and Computer Applications))

**Department:** Agricultural Economics, CALS  
**Job Number:** A061

**\*Position: Research Associate**

**Department:** Materials Science and Engineering

**Job Number:** A062

**\*Position: Assistant Professor**

**Department:** School of Chemical Engineering  
**Job Number:** A063

**Position: Research Associate I**

**Department:** Plant Pathology, Geneva, NY  
**Job Number:** A051

### CRC Spaghetti Dinner Is Open to Community

The Cornell Recreation Club will sponsor a spaghetti dinner for members of the Cornell community, their families and friends from 5 to 7:30 p.m. Tuesday, Feb. 28, in the One World Room, Anabel Taylor Hall.

Tickets, at \$3 for adults, \$2 for children 12 years old and under, are available at the CRC office, 165 Day Hall.

Due to space limitations, reservations will be limited to 400 persons. Those who wish to attend are asked to phone the CRC office at 256-7565 by no later than noon Thursday, Feb. 23. Tickets must be picked up at the CRC office by no later than 3 p.m. that day.

The sauce and meatballs are being prepared by CRC members Andrea (Sidle) Hodges, executive staff assistant in the Senior Vice President's Office, and Gloria (Cima) Howell, assistant university registrar.

According to Howell and Hodges the recipes being used for the sauce have been handed down through their families from generation to generation.

# Faculty Bulletin

Continued from Page 5

## 4. Presentation On Computers

King: "I'm here to tell you what's going on in computing these days, and this is the story. As I think some of you know, very powerful computational devices packaged in small boxes called 'microcomputers' are now available, and within the next couple of years, devices would have - for those of you who follow technology roughly the power of a VAX 780 or a medium scale computer scale like the IBM 4341 are going to be available in a small box. The availability of that kind of computer power is going to enable lots of things - some of which people are only just beginning to imagine. And the University Computing Board, which has broad representation across the campus, has been studying the implications of this microcomputer revolution and has been pressing to get Cornell involved in the middle of it. In fact, as of this date, Cornell has the opportunity to play a leading role in the development of the application of what is coming to be called 'scholar's work stations, to infusing a set of capabilities into the instructional curriculum. The University has been in discussion with a number of computer vendors, and three relationships have developed into what could be substantial relationships. One of them is with a large company and the proposal there is that over the next three years there be a grant to Cornell of approximately 500, in computerese, 4M capability scholarly work stations. By 4M they mean that the work station would have a million bytes of memory, be capable of executing a million instructions per second, have an all points addressable display with a thousand by thousand or a million points on it and be connected to a communication network which would enable a transfer of information in excess of a million bits per second. So, the University is discussing that relationship. It is a relationship which would be coordinated with the activities going on at the Carnegie Mellon Institution, Brown University and possibly MIT, and an apparatus is in the process of being put in place to coordinate the development of that proposal. The deans have all appointed coordinators. Some of these coordinators are chairing college committees, and these college committees or coordinators will put together a three-year plan for the use of these work stations and if it's interesting to you, I could tell you who these key people are. This group is beginning to work on developing a proposal which could end in an application to that particular computer company for a grant of 500 scholarly work stations.

"Similarly, the University has been in discussion with the Apple Corporation, primarily with respect to some products that have not yet been announced, and, therefore, the relationship can't be discussed in any detail except to say that I think some 45 people at the institution have seen these products - have seen one of them, and I think it's a fairly exciting product, and the proposal from Apple is that faculty, students, or administrators at Cornell will be able to purchase - in fact, their entire line of products including the new line - at something of the order of a 60% discount. The possibility exists that there will be a microcomputer that is in the range of performance of a small VAX available for slightly over a thousand dollars. In addition, there is a relationship with the Digital Equipment Corporation which will be announced in some form and available to faculty in the near future, and in this relationship, the whole microcomputer family manufactured by Digital will be available to the institution or to faculty members at approximately a 60% discount. So, there are three relationships that have developed. If the University participates broadly in these three relationships, I think the University has the possibility of playing a leading role in the development of instructional applications for microcomputers. I think the prospects are very exciting. There have been discussions with a number of faculty groups, including the Educational Policy Committee of the College of Arts and Sciences and the School of Engineering, about some of the implications of all of this, and then there are a number of implications. The major issues that have surfaced are the extent to which Cornell University's name should be associated with, commercial vendors, and the contracts which we have developed clearly indicate that whatever software or intellectual property is developed as a result of these contracts will remain the property of the University.

"Now, there are some internal issues that have to be resolved, which is to what extent does the University have rights and to what extent

does the faculty member who develops the intellectual property have rights, and there is a committee that Bob Barker has that is beginning to wrestle with that issue. But the major point is that in terms of the contracts that we have developed, the intellectual property remains the property of the University and is not the property of the vendor. Secondly, the vendor cannot use the University's name, insignia, mascot, etc., in any advertising or in any way without the permission of the University. So, the extent to which Cornell's name can be tied to the commercial ventures of any particular corporation are restricted to ways in which Cornell is willing to grant its permission.

"The third major issue that has been raised is the issue of cost; the process of infusing what can literally be thousands of microcomputers into the University is going to have significant cost implications and there have been some discussions with the Deans' Council and some discussions with faculty committees about the implication of that. Alan McAdams' committee, for example, is involved in looking at some of the implications of these proposed relationships. There are issues of equity, which is to say, if these computers are available to students, even at a significant discount, what sort of consequences would follow from the fact that the richer students could afford to buy them and the poorer students couldn't. With respect to that, at least one of the things that is clear is that there will have to be adequate public facilities at Cornell to insure that no student is denied access to this technology. There are some associated issues, though at some institutions, the cost of these devices has been folded into tuition and into the financial aid equation, and that is another manner in which the equity issue could be addressed, and this is an issue which clearly Cornell has to wrestle with. So, there are a whole set of subsidiary issues that various committees have raised, and these are issues which are in the process of being discussed with a number of faculty committees and with the coordinators of the college committees who are charged with developing a college plan. So, that's quickly and roughly what's happening. I'd be delighted to answer any questions that anyone might have."

Speaker Martin: "Are there any questions for Mr. King?"

Professor Stanton: "One of the problems that we often face in the computer business is the incompatibility of much of the software that's written from one system with another system. It sounds as though if you are developing these three separate relationships, that's probably going to continue for quite awhile, or do you see technological breakthroughs which may get around that?"

King: "Short term, at least, it's a serious problem. The long term - all three of these vendors are focusing on the use of a common operating system, and when that happens, most of the software will be relatively easily ported from one device to another. In short term, though, there are some incompatibility issues and what a specific college does with respect to any one of these possible programs will depend to some degree on how they propose to deal with that. So, it's short term - a problem, long term I think it's not going to be a problem."

Professor Sola: "The impending increase in our microcomputer capability means that we'll be pumping out even more information than in the past - and that was a lot. Can we use this technology to increase information flow to us and to our country? We are suffering now from an extreme imbalance in international information flow, with the consequence that we sometimes make poorly informed decisions at the University level and at the national level. Is it within your policy province to take an interest in such issues?"

King: "Yes. A critical element in the successful use of these scholar work stations is their networking interconnections, and as a part of the plan to install a telephone system, which, I assume, Hal told you about earlier, we are developing a coordinated plan for wiring the campus in a way which would allow information to go from every place to every place. At the same time, Cornell has been participating in networking groups which will connect Cornell to other universities. There are about 40 institutions most of the important research institutions in the United States are now in Bitnet. Sometime this fall the major European institutions will be connected to Bitnet via satellite link from Rome to New York City. Bitnet has a gateway to Arpanet, for those who know of Arpanet, and to CSnet, which is the Computer Science net, and to another called Mailnet. The union of all of these networks, along with the capability of exchanging electronic mail and messages through this

network, will put Cornell scholars in touch with scholars at every major university. In fact, that capability essentially exists today. So, one of the attractive capabilities is that you can exchange information with your peers around the country at electronic speed. Now, one of the potential problems that a university has with certain experts is that if we're the place with most of the expertise, the request for information could inundate Cornell scholars, and that's an issue that some people are beginning to think about seriously. It's one of the issues that has been discussed in connection with the creation of something called the Theory Center at Cornell."

Professor McAdams: "Can you tell us the status of the various contracts? Are any of them actually formally executed?"

King: "Yes. The contract with Apple has been executed by Cornell and Apple. The contract with the Digital computer corporation has been signed by Cornell and, I believe, signed by the Digital Equipment Corporation. That was supposed to happen on Sunday, but the mails haven't brought it back to me yet."

McAdams: "What's timing on the other contract?"

King: "Well, this committee of coordinators is going to have to meet to put together this grant proposal, the committee is going to meet through the intercession, and once it has put together a proposal, then it is going to have to be discussed through various apparatuses, and the lawyers from the computer company and the University are going to have a crack at it, so I really don't know when that contract will be finalized."

"What we are planning to do is to put together a price list of systems that are available, and that would be available quite quickly. We will send that list to the deans, along with a cover letter pointing out certain cautions, namely that before faculty rush out to buy a specific microcomputer, they might want to check with the college's plans because it would be inharmonious if the computer they had at home had disks which couldn't be read by the computer they had in the office. And so there has to be compatibility considerations which need to be addressed at the college or school level, and there's always the possibility that more interesting equipment will be available soon. So, this letter will have that kind of caution, will go to the deans, and the deans will distribute it to their faculty with perhaps some additional words of caution that are appropriate to that particular school or college. And that ought to go out quite quickly. A committee of deans has indicated to me that before we make these discounts available to students, we will really need some time to figure out whether or not we're doing them a favor by making them available, and the individual colleges want to wrestle with that issue by college basis."

McAdams: "Do you think these letters will be out before Christmas?"

King: "I mean, if there were real interest in having the letters out before Christmas, I'm sure we can arrange that."

Provost W. Keith Kennedy: "Ken, to repeat what you've already said, the currently available equipment or some of it is already available through the local vendors at almost the same price. The attractiveness of this is that we do think the next generation of computers which will have special features beyond what we have now will be available in, say, 9, 10, 12 months from now. So, we're not putting out a Christmas sale."

King: "There's a lot of information which we're not free to make publicly available except that we're telling you that in a small amount of time relatively, you may have more interesting options than you have today."

Professor Terrence Fine, Electrical Engineering: "This is both interesting and peculiar. If I'm reading it right, the Christmas list sort of suggests that Cornell is going to become an extension of the campus store; that is, a variety of computers are going to be available at a substantial discount, and yet, I hear nothing beyond that. It talks nothing about support for these purchases, but rather it is an opportunity for individuals to purchase pieces of equipment."

King: "There are two elements. One is something called pass through, which says that under the terms of these agreements, Cornell, as an institution, can pass through this substantial discount to its faculty and students, if it chooses to do so, and so where we have a pass through program we are going to, as I say, send these price lists to the deans, and they will, I believe, distribute them to their faculty. Step one will be, you can buy this equipment as an individual at this price, but before you do it, you ought to know the following. So, that's one program. Cornell as an institution could choose to buy these devices

at the same discount for placement in offices or public facilities. The difference is we wouldn't pay tax. The price would be the same except for that. But what we buy for public facilities depends on the plan that is in the process of being developed in each college or school, and the major caveat in all of this is before you do something as an individual, you might want to wait for your school or college to decide what it wants to do. In fact, you may want to actively participate in the discussions which lead to the decision of your school and college as to what to do."

Fine: "We're talking about fair amounts of money. Is money going to be available to colleges to purchase equipment? I mean, it's one thing if I'm thinking about my own personal decision before Christmas or after, but what is it on the college scale? What is the stake of planning here?"

King: "The Provost, who is the source of these funds, or Tom Everhart, will have to deal with that for the School of Engineering."

Provost Kennedy: "Let's just look at it in Engineering. Does Engineering have any other alternative except to move heavier and heavier into the computing area? I don't think you do. Now, just how you do it, I don't know. You have a budget of some 15, 16 million dollars of annual operating budget plus your research grants and your gifts and grants and contracts. You're going to have to make tough decisions. To be very specific, we do not have a big pot of money to hand out for Engineering or Arts & Sciences or others to buy these computers. There will be some money available, but it's a matter of looking at it and reallocating resources. If computers indeed are not important to Engineering, then make me aware of this and keep your money and don't spend any there. But it is going to be a reallocation of resources. It's nothing new."

Professor Burlitch: "You mentioned before that you were willing to give out the names of people making these plans. Maybe this has been publicized already and I missed it, but is the list generally available?"

King: "Well, the deans have just appointed their coordinators. I roughly remember them. Geoff Chester just left; I'm not even sure that he knows that Alain Seznec has appointed him, but he's the Arts & Sciences coordinator. Anil Nerode may have to stand in for him briefly. I don't think Anil knows that yet, either. The College of Engineering coordinator is Professor Kenneth Torrance. The College of Agriculture coordinator is Norman Scott; School of Management, Vithala Rao; Law School, Dean Peter Martin; Hotel School, Richard Moore; ILR, Paul Velleman; Human Ecology, Nancy Saltford; School of Veterinary Medicine, John Lewkowicz; Architecture, Art & Planning, Arch Mackenzie and Sid Saltzman."

Speaker Martin: "Our special thanks to all three of you gentlemen for a very interesting program this afternoon. Is there any further business to come before the faculty? If not, we are adjourned."

Adjourned: 5:47 p.m.

Respectfully submitted,  
Francine A. Herman, Secretary

## Reproductive Immunology Topic of Billingham's James Law Lecture

"Reproductive Immunology: Past, Present and Future" will be the topic for Rupert E. Billingham, professor and chairman of the Department of Cell Biology at the University of Texas Health Science Center, Dallas, in the third of the 1983-84 James Law Distinguished Lecturer Series.

The lecture by Billingham, a leader in the study of maternal immune responses during pregnancy, is scheduled for 4:30 p.m. Friday, Feb. 20, in the James Law Auditorium and is free and open to the public.

Professor Billingham has maintained an active interest in two distinct fields, the biology of tissue transplantation and immunological aspects of reproduction. At several junctures, he has been able to combine these two interests while investigating the consequences of the "natural" transplantation reactions which occur between mother and fetus.

# Cramton to Lead Nation's Law School Group

## Becomes Third Cornell Law Professor to Head Association

Roger C. Cramton, the Robert S. Stevens Professor of Law here, has been named president-elect of the Association of American Law Schools.

He will serve as president of the association during 1985, but will have specific responsibilities this year as president-elect and in 1986 as immediate-past president, for a three-year administrative cycle with the organization.

The AALS is the educational organization of the law school world and, along with the American Bar Association, is responsible for the accreditation of U.S. law schools.

Cramton was elected at the annual meeting of the AALS Jan. 4-7 in San Francisco. An extensive report on the meeting which addressed the theme of ethics appears in the Jan. 18 issue of the Chronicle of Higher Education. It states:

"For the first time," he (Cramton) said, law professors were addressing in depth questions of professional ethics and developing a serious body of literature on the subject.

"Mr. Cramton attributed the new interest at least in part to the increasing academic orientation of many law professors. They are 'asking more skeptical questions' about the profession, he said, and sense a 'heightened tension between the objectives of the academy—scholarship and the search for truth—and preparing students for roles in the profession as advocates.'

"He said he hoped that the concern among professors would produce a wider discussion of professional standards."

Cramton, who served as dean of the Law School from 1973-80, is the third Cornell law

professor to head the association. Ernest W. Huffcut was president in 1903 and Lyman P. Wilson in 1944. By coincidence, an interval of exactly 41 years falls between the terms of each of the three Cornellians.

Cramton, a graduate of Harvard College (1950) and the University of Chicago Law School (1955), is editor of the Journal of Legal Education. He has taught at Chicago and the University of Michigan and served as Assistant Attorney General in the Justice Department's Office of Legal Council.

Co-author of a text on conflict of laws, he has served on numerous commissions and written several reports dealing with the law and with legal education. His membership in learned societies includes the American Academy of Arts and Sciences.



Roger Cramton

## The Week in Sports

# Hockey, Wrestling, Basketball Highlight Home Weekend Events

Two contests each for the men's hockey, wrestling and women's basketball teams highlight the home calendar for Cornell sporting events this weekend. The wrestling team and women's basketball squad both have important Ivy League competition on tap, as the wrestlers go against Yale Friday evening (5 p.m.) and Harvard the following afternoon (1 p.m.); while the women cagers play Pennsylvania Friday night in Barton Hall (7:30 p.m.) and Princeton Sunday afternoon at Helen Newman (3 p.m.). The men's hockey team is home after a five-game road trip to face Dartmouth Friday evening and Clarkson Saturday night.

In addition to the home action for these squads, six other Big Red teams will be at home this weekend. The men's and women's fencing teams entertain Harvard, starting at 11 a.m. in Helen Newman. The men's and women's track teams will run against Yale in Barton Hall on Saturday, with the meet beginning at 1 p.m. Finally, the men's and women's polo teams will both be at home to face the University of Connecticut this weekend. The women's

match will be at 7:30 p.m. Friday, while the men will compete at 8:15 p.m. on Saturday.

In events on the road this weekend, the men's basketball team has two important games, traveling to Penn on Friday and Princeton on Saturday; the men's swimming team has a key Eastern League meet with Harvard in Cambridge on Saturday, and the women's teams from the two schools will also compete that afternoon. The women's gymnastics team travels to Ohio for a meet with Ohio State and Kent State on Friday; and the women's hockey team hits the road to New Hampshire to play Dartmouth on Friday and the University of New Hampshire on Saturday.

Both men's hockey games this weekend will begin at 7:30 p.m. and you can bet the Big Red skaters are looking forward to playing before the Lynah Faithful. Last weekend, Cornell completed a five-game road swing in which it lost all five contests, and the Red has now dropped seven consecutive games. The team is now 7-13 overall and 5-10 in the ECAC. The Big Red currently stands in third place in the Ivy Division of the ECAC, behind Harvard and

Yale.

This weekend will mark the first time Cornell has played both Dartmouth and Clarkson this season.

Last year, the women's basketball team finished with its best record ever, going 11-15 overall and 3-9 in the Ivy League. After splitting with Dartmouth and Harvard on the road last weekend, the Big Red can match these figures this weekend. Cornell is now 10-8 overall and 2-2 in the Ivy League heading into this weekend; even more important, the team is right behind league leader Princeton in the Ivy standings.

Cornell has now won four out of its last six games, and eight of its last 11, and a major reason for that has been the play of forward Karin Dwyer and Julie Crotty.

The Big Red wrestling team has once again gotten off to a great start in the Ivy League, having won its first three league matches of the year; last season, the wrestlers won their first Ivy title outright since 1966 with a perfect 6-0 mark. Cornell upped its overall record to 7-2 by defeating two teams at home last Saturday, routing

Brown (44-0) and beating Ithaca College (25-18).

The men's and women's fencing teams will look to get back on the winning track against Harvard on Saturday. The men, who are 2-5 overall and 1-2 in the Ivy League, lost three matches in New York this past Saturday. The Big Red fell to Columbia (20-7), Navy (14-13) and St. John's (18-9). The women went 1-3 during the day, as it defeated Hunter College (9-7), but lost to Navy (9-7), Columbia (12-4) and St. John's (13-3). The squad's record now stands at 3-8 overall and 0-2 in Ivy competition.

The women's polo team is enjoying another outstanding campaign. The women riders ran their record to 9-1 with a 14-7 victory over Virginia at home last Saturday.

The Big Red men's and women's track teams are both coming off their first dual meet victory of the year, as both squads defeated Syracuse this past Sunday. The men won 87-49 and the women were victorious by a score of 74-43.

# Two Campus Organizations Sponsor Recycling Contests

Ecology House and the Office of the Vice President for Campus Affairs are sponsoring two separate recycling contests on campus.

The contest being sponsored by Campus Affairs is for paper recycling only. Any academic or non-academic department or office can enter. Participants will compete

in one of three categories: academic, non-academic or computing/photocopying centers. The prize will be refreshments for the daily break (morning or afternoon) of the winner's choice. The Campus Affairs contest will begin on Monday, Feb. 20, and will continue through Friday, May 4.

The Ecology House contest is somewhat

more extensive as far as what materials can be recycled and is for all dormitories and cooperative living units. Recyclable materials included in the contest will be clean glass, colored and white paper, newspaper, aluminum and corrugated cardboard. The Prize will be an ice cream spree. The Ecology House contest began on Feb. 4 and will continue through April 28.

Departments or offices interested in competing should contact Rebecca Wilsterman at 256-4166. Dormitories and cooperative living units should contact Tim Strode '85, co-coordinator of the recycling program at Ecology House, at 256-5305.

Departments and offices participating will be supplied with recycling receptacles and trash bag liners. Each participating unit will be assigned a number which will

appear on all bags of recycled paper. Winners will be determined by the total weight of recycled paper collected within the allotted time.

Entrants in the Ecology House contest will separate recyclable materials and deposit them in recycling receptacles. They will be picked up once a week by volunteers from Ecology House who will then take them to Ithaca Scrap Processors.

The Cornell Recycling Program began in the early '70s and is administered by the Office of the Vice President for Campus Affairs. Proceeds from recyclable materials are "recycled" into the program.

Any questions about the contests or recycling program should be directed to Wilsterman (256-4166) or Strode (256-5305).

# Greene Leaves Admissions Post

Milford W. Greene, associate dean of admissions and financial aid here for the past year, has resigned to resume a career in medical teaching and biomedical research in Atlanta, where his family lives.

Greene said a medical institution in the Atlanta area has offered him a joint associate professorship in community medicine and family practice and in basic science (biochemistry). He also would be assistant dean for biomedical research and director of minority affairs.

Greene's primary objective at Cornell had been to reverse the trend of declining applications from minority students, according to James J. Scannell, dean of admissions and financial aid.

"The results speak for themselves," Scannell said. This year freshman minority applications have increased 13.2 percent.

"This increase is reflected in every racial/ethnic sub-population and represents the largest number of minority applications

in the university's history," he said.

"I am most grateful for the leadership and energy which Milford brought to this effort, and I regret his resignation," Scannell continued.

He announced that Rene Cabera, associate director of admissions, will serve on an interim basis as Coordinator of Minority Admissions and Recruitment.

For the rest of this semester, Scannell will review the nature and scope of the position Greene held, and "after broad consultation and review ... a permanent replacement will be sought," he said.

Greene was a faculty member, dean for admissions and chairman of the Committee on Admissions at the Morehouse School of Medicine in Atlanta for three years before coming to Cornell. He previously spent five years as a faculty member and administrator at the University of Massachusetts Medical School.

# Demonstrators Protest Recruiting

Two demonstrations protesting recruiting on campus by "top defense industries" took place on campus this week.

After a noon-hour rally in front of Willard Straight Hall, Monday, some 40 demonstrators gathered at two entrances to Statler Hall to talk to engineering students there to be interviewed by recruiters from General Dynamics Corp. Members of the group, which identified itself as the Cornell Peace Council, handed out fliers to the engineering students and sang.

The crowd at the rally was estimated at nearly 100.

Representatives from General Dynamics canceled a recruiting meeting for engineering students Sunday night when some 30 demonstrators blocked the doorway to a conference room in Statler Hall.

The group, which identified itself as Ithacans for Peace, sat in the doorway to the room in what they called a "non-coercive blockade."

# Brief Reports

## Schedule is Changed For Spring Elections

The Office of the Assemblies has released a revised schedule for the up-coming spring elections for membership on the Employee and Student Assemblies and for trustees.

Petitioning for Employee Assembly and Employee Trustee will continue through March 7. Validation of petitions will take place on March 9 with campaigning scheduled for March 12-April 4. Ballots will be mailed March 19 and will be due back in the Assemblies Office no later than April 4. The results will be announced no later than April 16.

For Student Assembly and Student Trustee, petitioning will be held Feb. 20-March 1; validation of petitions will take place on March 2; campaigning will be March 3-19; ballots to graduate students and those in the professional schools will be mailed March 12; voting will be March 20 and 21 and the results will be reported on April 2.

A "meet the candidates" brown-bag lunch for employees is scheduled for March 20, time and location will be announced at a later date.

Complete election information is available at the Office of the Assemblies, 165 Day Hall.

## Physicist Will Discuss Arms Control Strategies

Physicist Richard Garwin, considered a leading expert on arms control and nuclear strategy, will discuss the topic "Is Ballistic Missile Defense Fact or Fiction," in a public lecture at 4:30 p.m. Thursday, Feb. 16, in Hollis E. Cornell Auditorium of Goldwin Smith Hall.

Garwin will be on campus Feb. 12 through 19 in his capacity as one of the university's Andrew D. White Professors-at-Large. During his stay he will participate in several seminars and meet informally with students and faculty. Appointments may be made through the office of Cornell's Peace Studies Program, 180 Uris Hall, telephone 256-6484.

He will participate in the regular physics seminar at 4:30 p.m. Monday, Feb. 13, in Room A of Rockefeller Hall, as well as a Peace Studies Program luncheon meeting at 12:15 p.m. Wednesday, Feb. 15, in 153 Uris Hall.

Garwin received his Ph.D. in physics

from the University of Chicago in 1949 and, after three years on the faculty of the University of Chicago, he joined the IBM Corp. in 1952 and is, at present, IBM Fellow at the Thomas J. Watson Research Center in Yorktown Heights and Adjunct Professor of Physics at Columbia University.

Garwin is a consultant to the United States government on military technology and arms control.

He has published about 100 papers and been granted 27 U.S. patents. He is co-author of the books: "Nuclear Weapons and World Politics" (1977), "Energy: The Next Twenty Years" (1979), and "Science Advice to the President" (1980). Garwin was a member of the President's Science Advisory Committee in 1962-65 and 1969-72, and the Defense Science Board in 1966-69.

## Accounting Program 'Overview' Scheduled

A presentation providing an overview of the current project to upgrade the university's accounting system has been scheduled by the University Controller's Office for 2:30 p.m. Thursday, Feb. 16, in Room G94 of Uris Hall.

The principal thrust of this project is to provide colleges, departments and individuals access to the information in the accounting system. This is substantially the same workshop which has been offered six times in the past few months, but it has been slimmed down to one and one-half hours.

The workshop will provide a demonstration of the completed phases, indicate further enhancements planned and talk about equipment needs. Since space is limited, interested persons should call 6-4242 if they intend to attend.

## Kite Hill Parking Permits Available

A limited number of single-day parking permits for the Kite Hill lot on campus are now available to visitors to campus and all members of the Cornell community, according to Sally Van Etten, traffic bureau manager.

The permits may be purchased for 75 cents at the various traffic booths at the entrances to the campus. The number of permits available fluctuates daily because of several factors, including the size and number of work crews at construction sites on campus, she said.

## ROTC Scholarship Meetings Planned

An information meeting on Army ROTC scholarships, worth as much as \$10,000 a year to Cornell students, is scheduled for 7:30 p.m., Thursday, Feb. 16, in 201 Barton Hall.

Freshman and sophomore students are invited to apply for the scholarships whether or not they are currently enrolled in ROTC.

Some 75 percent of Cornell Army ROTC students are on scholarships, which is well above the national average. If more than 72,000 men and women enrolled in Army ROTC nationally, 12,000 receive scholarships.

These scholarships pay for tuition, lab fees and other academic expenses, provide an allowance to buy books, supplies and equipment, and furnish the student up to \$1,000 in a tax-free subsistence allowance each year the scholarship is in effect. At Cornell, this amounts to about \$10,000 each year at an endowed college.

## Experimental College Plans Spring Courses

Short, non-credit courses in areas of dance, exercise, arts and hobbies, special interest, food and drink are being offered this semester by the Department of Unions and Activities' Experimental College.

The courses, open to members of the Ithaca and Cornell communities, are designed to provide opportunities to increase skills and pursue interests in a variety of non-academic areas.

Registration will be held from 6 to 8 p.m. in the Memorial Room of Willard Straight Hall on the following schedule: Monday, Feb. 13, bartending courses; Tuesday, Feb. 14, dance courses; Wednesday, Feb. 15, all other courses and unfilled courses. Late registration will be held from 10 a.m. to 3 p.m. Thursday and Friday, Feb. 16 and 17, in 535 Willard Straight Hall.

Brochures listing course descriptions and registrations will be available after Feb. 3 at the following locations: Noyes Center, Robert Purcell Union, Willard Straight Hall and the Day Hall Information and Referral Center on the Cornell campus and at the Tompkins County Public Library downtown.

For further information call 256-7131.

## SAGE CHAPEL

### Daniel Sisler Will Be Speaker

Daniel Sisler, professor of agricultural economics, will speak at the 11 a.m. Sunday, Feb. 12, Sage Chapel Service. His sermon topic will be "Sharing."

Sisler, a graduate of Purdue University, received his doctorate from Cornell in 1962. He was one of three people in the United States to receive an award from the American Farm Economic Association for his dissertation.

In 1964, Sisler was voted by the senior class to be the most outstanding teacher they had experienced at Cornell. In 1975, the State University presented him the Chancellor's Award for Excellence in Teaching and in 1978 he was awarded the Distinguished Undergraduate Teaching Award of the American Association of Agricultural Economics.

Considered an authority on international development and trade, Sisler has been consultant to the presiding bishop of the Episcopal Church of the United States on world hunger problems. His work has been recognized as evidence of "a long and deep concern for the food and economic needs of people in less developed countries."

Music for the service will be provided by the Sage Chapel Choir under the direction of Donald R.M. Paterson. Stephen May, DMA, serves as assistant conductor and accompanist.

## Workshop to Explore Publications Use

A workshop on "Using Federal Government Publications," is scheduled from 9 a.m. to noon Friday, Feb. 17, in Room 105 of the ILR Conference Center. It is open to all members of the Cornell community without charge.

Sponsored by Cornell University Libraries, the workshop will cover methods of identifying, evaluating and obtaining information contained in federal statistical publications.

Several research tools will be introduced including the "American Statistics Index," "Index to International Statistics," "CIS Index," and the "CIS US Serial Set Index." Each participant will receive complimentary search guides. For more information and to register contact: Emily Belcher at Uris Library, 256-7148.

The workshop will be presented by Jane Edwards, Congressional Information Service, Inc.

# Astronomers Made Observations from a Reflector in Arizona

Continued from Page 1

interferometry, which allowed them to measure light from within extremely small angles in the sky.

The apparent diameter of the scattering cloud around HL Tau is about two times larger in the east-west direction than in the north-south direction. "This distribution is just what we would expect from a disk-shaped cloud, which in this case lies at a tilted angle with respect to our line of sight — that is, the disk as seen from Earth is neither exactly edge-on nor face-on," says Beckwith of Cornell.

"From the amount of scattering at different wavelengths, we know we are dealing with small particles less than a few thousandths of a millimeter across. Such particles should be swept from the center of the disk by radiation pressure from the star, but HL Tau is so young, about 100,000 years old, that only a small hole — analogous to that in an old 45 rpm rock-and-roll record — would have been produced by now."

Small planets, called planetesimals, could be expected to form from the dust and gas in the center of the disk.

The astronomers made their observations on the four-meter Mayall reflector on Kitt Peak in Arizona, NASA's Infrared Telescope on Mauna Kea in Hawaii, and Great Britain's Infrared Telescope, also on Mauna Kea. Conditions at Mauna Kea, the world's highest major observatory, are especially favorable for infrared astronomy. Support for the research was provided by the National Science Foundation, NASA, and the Alfred P. Sloan Foundation.

In addition to HL Tau, the team detected scattered infrared light indicating solid material around another newly formed star, R Mon, in the constellation Monoceros. The angular size of the cloud in the R Mon system is similar to that around HL Tau, but because R Mon is four times farther away from Earth, the R Mon cloud is four times larger than the one about HL Tau.

The new discoveries are somewhat similar to those announced by NASA in recent months, reporting evidence of solid particles around the stars Vega and Fomalhaut. Because Vega and Fomalhaut are much closer to the Earth than either HL Tau or R

Mon, the particle clouds around the former stars appear to cover a much larger area in the sky.

Nonetheless, the cloud masses around HL Tau and R Mon are both much greater than the masses observed by NASA's Infrared Astronomical Satellite around Vega and Fomalhaut. The total detected mass in the cloud near HL Tau is roughly equal to the Earth's mass, and that around R Mon is roughly five times the Earth's mass. The satellite measurements indicated that the detected mass around Vega and Fomalhaut was only a percent or so of the Earth's mass.

HL Tau and R Mon are also much younger than Vega and Fomalhaut, so planets might be forming right now around these younger stars.

The giant planets in our solar system, Jupiter and Saturn, are composed mainly of hydrogen and helium. The dust particles detected around HL Tau and R Mon are not made of these elements but rather of the cosmically much less abundant elements, such as oxygen and silicon, that comprise the Earth. From their observations, the astronomers infer a hydrogen mass around

HL Tau and R Mon comparable to the mass in the giant planets. Thus, conditions appear favorable for the formation of a planetary system similar to our solar system.

Investigating several other stars which might, conceivably, be ringed by planets, including T Tau, DG Tau, and V380 Ori, the team found no evidence for solid particles, although these stars are similar in mass and age to HL Tau and R Mon. Two years ago, Dyck and Zuckerman discovered a faint, cool companion to T Tau which they believe to be a small protostar, but some other astronomers interpret as a giant protoplanet.

"Theoretically, it should be very difficult to form disks in binary star systems such as T Tau," said Zuckerman of UCLA. "The lack of evidence for a disk around T Tau is consistent with such theories. We do not yet know why DG Tau and V380 Ori show no signs of planetary material. There is a possibility that small dust particles have had time to condense into larger particles, or even planetesimals, which, however, would not show up in our observations."

# Networking

Published by Employees for Employees

## February Dedicated Service Award Winner:

### Martha Fessenden, Secretary, Human Services Studies

A secretary's job is varied and demanding, requiring a special blend of skills and personality. Juggling the mixture of talents needed to perform well is difficult, and for Martha it is just short of magic — Martha is legally blind. Although Martha may not see things as brightly as we do, she is the "sunshine" in the department. She can transform sorrow into happiness, chaos into order, and smile through it all.

Martha moved from Worcester, Massachusetts, to Ithaca in 1973 to be closer to her daughter. She has been employed as a secretary in the Department of Human Service Studies for ten years providing support primarily to the department's Cooperative Extension effort. She has been consistently described by faculty and staff who have worked with her as the most

faithful and dedicated employee they have ever met.

Each day, in every way, Martha shares her sense of loyalty and infectious enthusiasm. Her warmth crosses Department lines and transcends the job hierarchy touching everyone. She not only has a "home away from home" in HSS, but also has been adopted in spirit and heart by the staff of Cooperative Extension. Martha's affable nature has aided her professionally, enabling her to establish a mega-network of contacts at Cornell and throughout New York State. The helping hand she so often extends is second nature to her: a giving spirit.

Martha's generosity and creativity touch her colleagues in very special ways. In Human Service Studies, the Easter Bunny really does come bringing crocheted bunnies with chocolate

## It Takes People

eggs (it's Martha), Santa Claus hangs hand-crafted wreaths on doors (made by Martha Claus), everyone wears Martha's Great Pumpkin pins at Halloween and eats candy hearts on Valentines Day (it's Martha who is the Saint). Martha's crocheting and handiwork are "state of the art" reflecting her skill, ingenuity and love. Because of her good nature and genuine helpfulness, Martha provides a constant uplift to department morale. She is an extraordinary employee and an even more extraordinary person.



Michele Draiss conducts typing tests for applicants for positions requiring typing skills.

## Get Involved!

By ANNA MORATZ

"Immigration is the sincerest form of flattery," Jack Paar once said. It's true that countless people make tremendous efforts and sacrifices each year to come to America. One of the reasons why they'd rather be here than in their own country is the freedom of choice they will and do find. In this day and age, they do know that the streets are not paved with gold. And along with the freedom they soon realize that hard work, at times struggle, and much responsibility awaits them. Even to find a basis on which to make a voting decision is not always an easy task.

On a much smaller scale, this process can be compared to employee elections at Cornell. Cornell is one of the few institutions among peers with a system under which employees can elect one of their colleagues to represent them on its Board of Trustees. It has happened to people like Cooperative Extension secretary Marilyn Cooke and Radiation Safety Officer Dominic Versage, your current representatives. It can happen to you!

Election by your co-workers to the Employee Assembly is another way in which you can get involved. Just one example of past constructive employee participation on the Assembly: last year, a subcommittee studying the Cornell Children's Tuition benefit helped bring about improved eligibility conditions for Cornell's support staff.

Will Rogers once remarked: "Even if you're on the right track, you'll get run over if you just sit there." If the thought of being a Trustee or Employee Assembly member ever crossed your mind — now is the time to get involved. Petitioning for candidacies for the Trustee and Employee Assembly is in progress for both — and you can be among the candidates by collecting the necessary signatures. The Employee Assembly Office, 165 Day Hall, extension 6-3715, has the details. Whatever role you choose — here's a chance to broaden your views, be of true service and help preserve the democratic spirit.

If you can't run this time — remember to vote for the candidates of your choice at election time in March!

## Know Your Personnel Services

### Staffing the University

Submitted by University Personnel Services

When you find changes occurring within your staff due to ... a promotion, a transfer, a move out-of-state, an extended illness or a leave of absence ... what do you do next? How do you begin the process of replacing someone on your staff?

The Staffing Services section of University Personnel Services is ready to help you find the right people to carry out the work of your

department. Whether the need be full-time, part-time or temporary personnel for a wide range of positions at Cornell, Staffing Services can assist your department in meeting recruitment needs. Serving the entire University community, Staffing Services works with departments, employees, and outside applicants.

When contacting Staffing Services, the first person you may reach is the receptionist, Ellie Doty, who answers questions about job open-

ings and often handles as many as 250 incoming calls per day, as the switchboard operator for University Personnel Services.

Ellie will refer inquiries about hiring to the appropriate staff member. A staffing specialist will review the position requirements with the hiring supervisor from your department and help determine selection criteria. Staffing can also arrange for immediate short-term help from their pool of available candidates.

The staffing specialist may suggest a visit to your department in order to better understand the work to be performed. He or she may provide advice concerning local, regional or national recruitment advertisements while also arranging for internal posting through the *Job Opportunities List* published each week in the *Cornell Chronicle*. For over 1,200 positions handled in this manner last year, the university received some 3,400 internal transfer applications as well as 30 to 100 resumes and applications for each position from outside applicants. Although vacancies are limited, approximately 50 percent of available positions were filled by current employees last year.

Staffing Services refers qualified applicants for a wide range of positions throughout the university, including many occupational special-

Vet College, 63 Research Tower, February 15, 1984, 2:00-3:00 p.m.

Geneva, Jordan Hall Auditorium, February 16, 1984, 12:00-1:00 p.m.

Arts Quad, Hollis E. Cornell Auditorium, February 17, 1984, 1:30 - 2:30 p.m.

Uris Hall, Room 202, February 20, 1984, 10:00 - 11:00 a.m.

Anabel Taylor, Founders Room, February 21, 1984, 12:00-1:00 p.m.

Vet College, 163 Morrison Hall, February 22, 1984, 12:00-1:00 p.m.

Ag School, Caldwell Hall, Room 100, February 23, 1984, 2:00 - 3:00 p.m.

104 Maple Avenue, February 24, 1984, 1:00 - 2:00 p.m.

## Assembly Plans Benefit Meetings

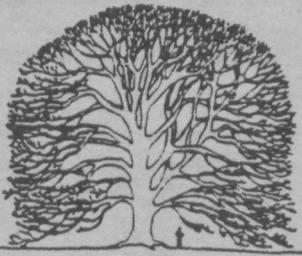
The Employee Assembly strongly encourages you to attend one of these meetings. Personnel wants your input to design the system in the best possible way; the Assembly needs to know how you feel about the program to see if we can endorse it. Come to one of the meetings in your area. Remember, they are open to all during working hours with supervisor's approval.

Engineering Quad, Hollister Hall, 1st floor, McManus Lounge, February 13, 1984, 2:00 - 3:00 p.m.

Ag Quad, Martha Van Rensselaer Auditorium, February 14, 1984, 12:00 - 1:00 p.m.

North Campus, Robert Purcell Union, Multi-purpose Room, February 15, 1984, 10:00 - 11:00 a.m.

Continued on Third Page



## Plantations Offers Winter '84 Courses

Advance registration and fees are required for all courses which are open to all interested. Class size is limited, so register early by mail or in person at Cornell Plantations Headquarters building. All classes meet at Plantations Headquarters building, One Plantation Road, Ithaca, New York, unless otherwise indicated.

February 5, 12, 19, 26 — 2:00 - 3:30 p.m. (Sundays) — Winter Nature Walks. Registration not required. Walks leave from Plantations Headquarters building. There is NO fee.

February 15 — 7:00 - 9:30 p.m. (Wednesday) — Exotic dye plants. Students will have the opportunity to work with exotic dye plants, which offer a wide range of colors. They will prepare dye baths and dye wool to make color samples to take home. Fee is \$10.00.

February 23, March 1, 8, 15 — 7:00 - 9:30 p.m. (Thursdays) and (Saturday) February 25, 12:00 - 2:00 p.m. — Floral Graphic design. This course is designed to take you through the whole procedure of learning how to make your own calling card, book plate or stationery. Covered will be the elements of design, reproduction processes and sketching of plants from life. The sketches will be developed into a complete design for reproduction. Bring a pencil and paper to first class. No experience necessary. Fee is \$32.00.

Call 256-3020 for more information.

### TIAA/CREF

#### TIAA's Interest Rate

For the period from January 1, 1982 to February 29, 1983, 12 1/4 percent.

Value of a Single CREF Unit

December 30, 1982, \$55.73

October 31, 1983, \$65.95

December 31, 1983, \$66.84

You may call TIAA/CREF's toll-free number (800) 522-5622 (from within New York State) for a daily report on the investment experience of the CREF common stock portfolio.

# CRC Newsletter

The Cornell Recreation Club has four events scheduled in February and March. This *Sunday, February 12* open bowling for CRC members and their families will take place at Helen Newman Lanes from noon to 8 p.m. Fifty cents a game with CRC membership card. *Tuesday, February 28*, CRC is sponsoring a *spaghetti supper* for all Cornell employees, faculty, graduate students and retirees in the One World Room at Anabel Taylor Hall from 5:30 to 7 p.m. CRC Board Members Andrea Hodges, Gloria Howell and Dom Versage will prepare spaghetti Italian meatballs, salad and rolls to be served by willing CRC volunteers (spaghetti will be available with or without tomato sauce). They also promise music and other entertainment. The purpose, as with all CRC activities, is to encourage Cornell employees to get to know each other better. The charge is \$3.00 for adults, \$2.00 for children aged 12 and under. You can drop in after work, enjoy the meal and have plenty of time to make the hockey game that night. CRC members are requested to make reservations at the CRC office by February 23.

The *March 17 - 18* weekend will feature a Scotch Doubles Bowling Tournament at Helen Newman Lanes. Watch the February issue of CRC newsletter for details. CRC will again sponsor a bus trip to Syracuse in March to the Ice Capades. The date is *Saturday, March 24*. Cost is \$13.00 for CRC members, \$18.00 for

nonmembers, and includes a good seat at the noon performance in the Syracuse War Memorial. Reservations should be made at the CRC office by March 9. To reserve a seat, call 6-7565 weekdays between 10:00 and 2:00 or drop by the office at 165 Day Hall.

As reported in recent *Networking* issues, the CRC holiday dinner dance and the Hawaii vacation trip in January were huge successes. CRC's activities committee is already planning another vacation tour next January, and would welcome suggestions from Cornell employees (here's your chance to tell them where to go!). By the way, would you like to lead a CRC event or start new areas of activity for the Club? CRC can be whatever its members want it to be. If you know of a worthwhile activity that needs taking on by interested employees, call Becky Cofer, CRC secretary at 6-7465; she will take it from there. The Club's Board of Directors meets on the second Wednesday of each month, usually in the third floor board room in Day Hall and welcomes visitors. If you lead a CRC event, the Club will pay your transportation up to \$50 in exchange for volunteering.

CRC welcomes three new members to its Public Relations and Membership Committee: Jane Ciciarelli, Computer Services; Dennis Ferguson, Hotel School faculty; and Donna Vose, administrative aide, Hotel School.



Alice Martin, B & P, receives the first GEC Computer Course certificate from Jane Vickery, GEC Chairperson, and John Barnard, Head Instructor.

## Geneva News

The Geneva Employee Council this past fall offered a certificate course, Introduction to Modern Computers. The course was taught by John Barnard, Ed Boderick, Pat Krauss, and John Zakour who are on staff at the Geneva Experiment Station. There was such an overwhelming response that two more sessions of the course are being held this winter. The GEC plans to continue in its effort to offer more certificate courses in computers and in other areas.

## Concerned About Parking? Employee Input Requested

A special *ad hoc* committee of employees is now meeting regularly to examine employee concerns regarding transportation and parking. We hope to be able to make suggestions that will be helpful to the university in its operation. We believe that getting employees to and from work as efficiently and conveniently as possible can benefit us all. We hope to create a greater awareness of employee transportation needs in the Employee Assembly and among the administrators involved.

Employees should study the Office of Transportation Services (OTS) Transportation Plan in the December 22, 1983 *Chronicle* and attend a public hearing which will be held on this. Specific comments on the plan should probably be sent directly to OTS, but we would like to

receive a copy also. We are concerned about parking rates, eligibility categories, expanded bus service, enforcement, and other transportation related issues.

Please note that we are not the regular Transportation Committee (COTS) which will be sponsoring hearings soon. Nor are we a part of OTS. We will be working with the Employee Assembly to summarize and report employee and faculty concerns.

We believe that a clear expression of employee interest in this can help to shape policy in ways which are more favorable to us all. Thus, we would like to receive a response from every employee who has concerns regarding transportation or parking problems. If you have such concerns, please describe specific problems or

general policies that hamper your access to and from your work. Your suggestions for logical changes to improve the system will be appreciated. Please sign your letters and send them to:

The *ad hoc* Transportation Committee  
c/o Office of the Assemblies  
165 Day Hall

Members of the committee are:

Doug Bianchi - 803 Vet Research Tower

Ann Butler - B-29 Upson Hall

George Chevalier, Chair - B47 Bard Hall

Carol Cook - 123 Day Hall

Don Enichen - 123 Day Hall

Dot Messenger - 293 Roberts Hall

Donna Wiernicki - 202 W. Sibley Hall

## Employee Breakfasts and Lunches With Administrators

SPRING 1984

If you are an employee of Cornell and are interested in attending a breakfast or lunch, please fill in the coupon below or call 256-3715, Office of the Assemblies. These breakfasts and lunches are sponsored by the Employee Assembly.

All breakfasts will be held in the Elmhirst Room of Willard Straight Hall from 7:15 to 8:30 a.m. Lunches will be held in the private dining room of Robert Purcell Union from 12:45-2 p.m.

February 22 Wednesday LUNCH

David Drinkwater, Dean of Students

March 13 Tuesday BFK Joan Egner, Associate Provost

April 19 Thursday BFK

Lee Snyder, Director, Personnel Services

May 10 Thursday BFK

Keith Kennedy, Provost; Larry Palmer, Vice Provost

NAME \_\_\_\_\_

CAMPUS PHONE \_\_\_\_\_

WHICH MEAL? \_\_\_\_\_

## Dedicated Service Award

Many individuals at Cornell University contribute to the success of their department and the University through the use of talents that may not be recognized in their official job description.

Do you know someone who takes particular pride in their work, who exhibits a willingness and cheerfulness in the dispatch of their duties, who provides service beyond the call of duty, and who makes life at Cornell a rewarding experience for those with whom they come in contact? *Networking* is looking for special people you feel should be recognized for their special contribution. The **Dedicated Service Award** is open to any Cornell employee, regardless of rank.

Nominate someone today by filling in this form and please note that you should accompany your ballot with a paragraph explaining why you wish to nominate this person and a list of signatures from other department members supporting your candidate. If your candidate is selected, we will be in touch with you to supply additional information.

For the Dedicated Service Award  
I NOMINATE

Employee's name: \_\_\_\_\_ Phone: \_\_\_\_\_

Department: \_\_\_\_\_

Working Address/Phone #: \_\_\_\_\_

Person submitting nomination: \_\_\_\_\_

Dept./Address: \_\_\_\_\_ Phone: \_\_\_\_\_

Mail to: Donna Updike, 3M11 MVR Hall.

# Know Your Personnel Services: Staffing the University

*Continued from First Page*

ities. At any given moment, staffing specialists are each coordinating recruitment activity for 30 to 80 vacant positions. Staffing specialist Peter Nerzak and his assistant, Tammy Baker, handle a variety of general services jobs such as food service workers, groundskeepers, carpenters, and animal attendants.

Positions such as executive staff assistants, technical typists, editorial assistants, secretaries, office assistants, accounts coordinators, word processing operators, and administrative aides are handled by staffing specialist Esther Smith. Michele Draiss assists Esther and coordinates the pool of clerical applicants for short-term, temporary positions. Michele can be seen administering the typing test to applicants whose jobs require typing, every Monday and Wednesday. She also coordinates placement of recruitment advertising.

Staffing specialist Cynthia Smithbower and her assistant Sue Reynolds handle the technical recruitment for positions such as research support specialists, technicians, computer programmers and systems analysts. Vera Shadle is temporarily filling in for Sue while Sue is on short-term disability.

Recruitment for an administrative or professional position at Cornell may be handled by the staffing specialists or by Judy Morgan, manager of Staffing Services.

Judy and Alice Miller, assistant director of University Personnel Services, also serve on search committees for executive staff. They share overall responsibility for planning and developing nonacademic recruitment programs at Cornell, and for developing and administering university staffing policies and procedures — to respond to the needs of departments, employees, and applicants.

Jackie Fenton provides secretarial support for Alice and the entire Staffing group. In addition, Jackie is primarily responsible for producing "Job Opportunities" list every week for the *Chronicle*.

The recruitment process at Cornell involves constant review of applications and resumes through extensive file searches. Courtney Fletcher, a representative of New York State Job Service, is responsible for the coding and retrieval of all applications, which are kept active for six months. In other efforts to aid recruitment, staffing specialists visit colleges and high schools and develop new recruitment sources through local governmental programs and agencies.

While working with departments to fill position vacancies, Staffing Services also works with employees, providing information about opportunities for job changes at Cornell. For those employees who feel they may want to consider a job change, staffing specialists provide individual guidance. Through formal programs such as Cornell Careers, employees can gain insight from the career experiences of others at Cornell. For information on how to begin recruiting for your open positions, or concerning job opportunities at Cornell, call Staffing Services at 256-5226.



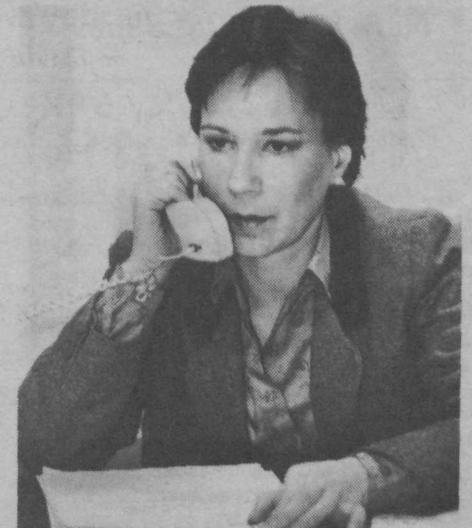
## Poetry Contest Deadline Extended

For all you poets, or would-be poets who were too busy over the holidays to write or rewrite your poems, the Poetry Contest deadline has been extended to **Tuesday, February 14 (Valentine's Day)**.

Remember: All entries should be submitted to Linda English, NAIC, Ind. Res. Park, 61 Brown Rd. (via campus mail); maximum of three poems per entry, three-five pages long; five copies of each poem submitted, one copy signed.

If you have any questions, please call Linda at 256-5274.

Available to help you and your department are, left to right: (top row) Ellie Doty and Judy Morgan, Jackie Fenton; (second row) Tammy Baker, Peter Nerzak; (third row) Courtney Fletcher, Cynthia Smithbower; (fourth row) Esther Smith, Alice Miller. Staffing Services can be reached at 256-5226. (Photographs by Charles Harrington.)



# Employee Calendar

Events of Particular Interest to Cornell Employees

**Thursday, February 9.** University Assembly Meeting, 4:45 p.m., 212 Ives Hall

**Monday, February 13.** Networking deadline (for Feb. 23 issue);  
Community Benefits Meeting, 2:00 p.m. McManus Lounge, Hollister Hall.

**Tuesday, February 14.** Student Assembly Meeting, 5:30 p.m., 202 Uris Hall;  
Community Benefits Meeting, noon, Martha Van Rensselaer auditorium;  
Networking poetry contest deadline.

**Wednesday, February 15.** Employee Assembly Meeting, 12:15 p.m., B-8 Roberts Hall;  
Community Benefits Meeting, 2:00 p.m., G3 Research Tower;

Blood Pressure Screening Clinic, Residence Life, West Campus, U-Hall #1, 9:00 - 11:00 a.m.; Residence Life, Balch Hall, 2nd floor lounge, 1:00 - 4:00 p.m.

**Thursday, February 16 through Thursday, March 1.** Student Assembly/Trustee Election, advertising for petitioning;  
Community Benefits Meeting, noon, Jordan Hall auditorium, Geneva.

**Friday, February 17.** Community Benefits Meeting, 1:30 p.m., Hollis E. Cornell auditorium, Goldwin Smith.

**Monday, February 20 through Thursday, March 1.** Student Assembly/Trustee Election, petitioning;  
Community Benefits Meeting, 10:00 a.m., 202 Uris Hall.

**Tuesday, February 21.** Community Benefits Meeting, noon, Founders Room, Anabel Taylor Hall.

**Wednesday, February 22.** Blood Pressure Screening Clinic, Mallot Hall, Room 225S, 9:00 a.m. - 12:00 noon;

Monthly Employee Breakfast/Lunch with Administrators, David Drinkwater, Dean of Stu-

dents, 1:00 p.m., Robert Purcell Union;  
Community Benefits meeting, noon, 163 Morrison.

**Thursday, February 23.** Blood Pressure Screening Clinic, Schoellkopf Hall, Hall of Fame Room, 9:00 - 3:00 p.m.

**Monday, February 27.** Networking deadline (for March 10 issue).

**Tuesday, February 28.** Student Assembly Meeting, 5:30 p.m., 202 Uris Hall.

**Wednesday, February 29.** Blood Pressure Screening Clinic, East Hill Plaza, Accounting Office, 8:30 - 11:00 a.m.

**Friday, March 2.** Student Assembly/Trustee Election, validation of petitions.

Saturday March 3 through Monday, March 19. Student Assembly/Trustee Election, campaigning.

**Wednesday, March 7.** Employee Assembly Meeting, 12:15 p.m., B-8 Roberts Hall;  
Blood Pressure Screening Clinic, Cornell University Press, Roberts Place, 8:30 - 10:00 a.m.; Cornell University Press, Warehouse, 10:30 - 11:30 a.m.

**Thursday, March 8.** University Assembly Meeting, 4:45 p.m., 212 Ives Hall (tentative)

**Friday, March 9.** Employee Assembly/Trustee Election, validation of petitions.

**Monday, March 12 - Wednesday, April 4.** Employee Assembly/Trustee Election, campaigning;

**Monday, March 12.** Student Assembly/Trustee Election, ballots mailed.

**Tuesday, March 13.** Student Assembly Meeting, 5:30 p.m., 202 Uris Hall;  
Monthly Employee Breakfast/Lunch with Administrators, Joan Egner, Associate Provost, 7:15 a.m., Memorial Room, Willard Straight Hall.

## Experimental College Offers Courses

Short, informal, non-credit courses will be offered by the Experimental College, sponsored by the Department of Unions and Activities at Cornell University. Courses will be offered in areas of dance, exercise, arts and hobbies, special interest, food and drink.

Brochures listing course descriptions and registration details will be available after February 3, 1984 at Noyes Center, Robert Purcell Union, Willard Straight Hall and the Day Hall Information and Referral Center on the Cornell campus and the Tompkins County Public Library downtown.

Course registration will be held February 13 - 15, 1984 in the Memorial Room, Willard Straight Hall from 6:00 - 8:00 p.m. with different courses registering each evening.

February 13, 1984 ..... Bartending courses  
February 14, 1984 ..... Dance courses  
February 15, 1984 ..... All other courses and unfilled courses.

Late registration will be held February 16 and 17 from 10 a.m. to 3:00 p.m. in Room 535, Willard Straight Hall.

For more information, call 256-7131.

## Employee Assembly Elections Are Coming

Petitioning began on January 23, 1984 for candidates to be elected representatives of employees on the Employee Assembly. If you would like to give your opinion on employee issues and are concerned about all employees having the opportunity to provide input in their work life, you may want to consider running for election as an employee representative or as a trustee. Petitions, requiring 25 signatures for employee representative and 200 for trustee can be obtained from the Office of the Assemblies in 165 Day Hall (256-3715). Petitioning will run from January 23 to February 20, 1984.

The following seats are open:

- 2 endowed exempt (2 two-year seats and 1 one-year seat)
- 2 endowed non-exempt (2 two-year seats)
- 1 statutory at-large (1 two-year seat)
- 1 statutory exempt (1 two-year seat)
- 1 statutory non-exempt (1 two-year seat)

## Photo Contestants: On Your Marks!

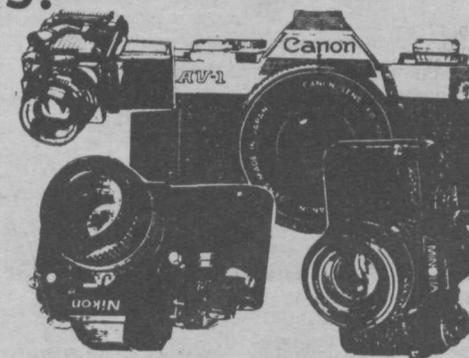
For those of you who have called and waited for details of *Networking's* Second Annual Photo Contest, they are as follows. Please read them carefully and adhere to them. Watch for posters across the campus as well. Plans will include the exhibit of *all* entries in the John Hartell Gallery (Sibley Dome) at a time to be announced. Good luck to you all.

### Categories:

- Animals/Wildlife
- Cornell
- Creative Techniques
- Humanity
- Places
- Seasons
- Still Life
- Sunrises/Sunsets

### Rules

1. You must be a full-time or part-time Cornell employee (including student employees and retired Cornell employees).
2. Only amateur photographers. (No one who makes 50% or more of his income from photography, or whose job description includes the taking of photographs is eligible!).
3. Competition is open to both black and white and color photographs.
4. Three photographs per employee entered in one or in any combination of categories.
5. You have the option to title your work of art.
6. Photographs must be 8 x 10 or 8 x 12 and *securely* mounted to an 11 x 14 colored mat of your choice. (Framed photographs will be disqualified!).
7. A label must be on the back of the mat with your name, campus work address, campus work telephone, and the category.
8. Submit each photograph in a 12 x 15 manila envelope with an entry form securely taped to the front of the envelope with all appropriate information filled out. (Entries will be disqualified if this format is not followed.)
9. Entries must be delivered to Nancy Hutter at 607 Clark Hall no earlier than 8:00 a.m. March 1 and no later than 4:00 p.m. March 30, 1984. (No entries will be accepted for any reason after that date and time.)
10. Only one entry per person will be allowed to win the Grand Prize or First Prize — any other which might be appropriate will receive an Honorable Mention.
11. The Photo Contest Committee will *not* be



held responsible for loss or damage to any entry submitted.

12. Judges' ruling is final.

The two grand prize winners — one for black and white and one for color — will each receive a prize from Campus Store, and all first prize winners will receive ribbons with certificates. These prizes will be presented in the Day Hall Board Room on Wednesday, May 16 at high noon.

### Photo Contest Committee

Deb Bridwell 6-5233  
Nancy Hutter 6-4320  
Mary Jamison 6-4247

\*Entry forms available through *Networking* or call one of the above committee members.

## Classified Ads

**For Sale:** 1968 Ford Mustang, 6 cylinder, automatic transmission, snow tires. Needs body work and a new battery. \$700 (negotiable) Call John at 6-4389 or 272-3645.

**For Sale:** 1972 AMC Gremlin - New tires, 3 speed, southern car, no rust. Asking \$900. Call 387-9743 anytime.

**For Sale:** 1975 Ford Super Cab - Camper Special w/cap 360 motor - 16.5 tire size - very little rust. Asking \$1,800. Call 387-9743 anytime.

**For Sale:** Jeep Renegade, 1979, CJ7, 4 speed, hard-top with sunroof, great condition. \$5,000 negotiable. 257-5077.

**For Sale:** 1976 Ford Maverick, inspected, runs, studded snows and summers on rims - rusty - \$150 - evenings 272-2899 — Dick.

**For Sale:** 1974 Pinto - runs well. Asking \$450. Call Linda at 6-4568 or 844-9746 after 6:00.

**Free:** White Persian cat. 2½ year old spayed female. Call Linda at 6-4568 or 844-9746 after 6:00.

**For Sale:** Child's stereo, 2 speakers/stand - \$35; girl's size 14 leather coat - \$30; electric blanket - \$15; "Cheshire Cat" double bed sheets, blanket, spread, drapes, etc. complete set - \$50. All excellent condition. 257-5677.

**For Sale:** Little used camera lens. Micro-Nikkor-P, auto 55 mm F 3.5. Call Geneva Tie-line 122-342 mornings or after 2 p.m. - 315-789-7766.

Please submit all classified ads and ridesharing ads to Linda English, NAIC, 61 Brown Road, Research Park, via campus mail. The deadline for the February 23 issue of *Networking* is February 13.

## Advisory Board

Mary Jamison	Nancy Hutter
Donna Updike	John Bender
George Peter	Mary Ellen Jones
Ron Parks	Anna Moratz
Linda English	Dominic Versage
Margaret Seacord	Jane Kellogg
Stacey Coil	

UNIVERSITY PERSONNEL LIAISON  
Jean Novacco

## Networking Deadlines

Feb. 13 (for Feb. 23 issue)  
Feb. 27 (for March 8 issue)  
March 12 (for March 22 issue)  
March 26 (for April 5 issue)  
April 9 (for April 19 issue)  
April 23 (for May 3 issue)  
May 7 (for May 17 issue)  
May 21 (for May 31 issue)  
June 4 (for June 14 issue)  
June 18 (for June 28 issue)

Articles may be submitted to Mary Jamison, Rm. 110 Olin Library; Donna Updike, Rm. 3M11, Martha Van Rensselaer Hall, Linda English, NAIC, Research Park, 61 Brown Road. Articles must be typewritten and double spaced when submitted or be subject to refusal. Thank you!!!