

CORNELL Chronicle

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The annual computer fair will offer Big Red Machines and tell parents how to keep in touch electronically.

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Dean Call to be honored at State Fair luncheon today

By Blaine P. Friedlander Jr.

New York Gov. George Pataki will open the 1995 State Fair today before holding the Governor's Day Luncheon there to honor New York state agriculture.

At that luncheon, the governor will recognize David L. Call, the retiring Ronald P. Lynch Dean of Cornell's College of Agriculture and Life



Call

Sciences (CALs). Call retires Aug. 31.

Cornell President Hunter Rawlings will accompany Call at the luncheon, which is run by the state Department of Agriculture and Markets. Rawlings then will visit exhibits by the colleges of Agriculture and Life Sciences and Veterinary Medicine, 4-H, the Geneva Agricultural Experiment Station and Sea Grant.

"We will all miss Dave's work ethic, his dedication to the college, his humor and his vision," Daniel G. Sisler, the Liberty Hyde Bailey Professor of Agricultural Economics, wrote in a letter to the college's alumni and friends. "But, pity the poor fish who

have been comparatively safe in the past."

Efforts to finance the David L. Call Ever-Green Ivy Fund have been successful, according to Maya Gasuk, director of development at CALs. Part of luncheon proceeds will go to this fund.

Currently, about 700 donors have made gifts or pledges that total almost \$400,000 to endow the fund, which will be used as a discretionary fund for future CALs deans to support specific projects within the college. The first donations for the Ever-Green Ivy Fund started arriving last winter.

Sisler was instrumental in soliciting donors for new CALs fund. He explained to

alumni and friends: "Gifts will be pooled together in an endowment, and each year the dean will use the earnings to support priority needs within the college. In short, they are funds to help subsequent deans be just the kind of strong and effective leader Dave has been."

In addition to money, sincere affection also poured in. Since Call announced his retirement, letters from alumni and friends began arriving at the college. And not just a few dozen letters. Several hundred well-wishing letters were collected — and then bound into two thick volumes. Letters from

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A sign of the times



Adriana Rovers/University Photography

Cornell Sign Shop workers have been busy preparing for the return of students to campus this week. Assistant foreman John Purcell, center, said more than 200 signs have been prepared within the last two weeks. With Purcell are sign-makers Rob Hastings, left, and Joe Philip.

New faces on campus will greet returning Cornellians

New faces — and some familiar ones in new surroundings — will greet people returning to campus this week.

Several administrative changes took place over the summer, some of which were announced before classes ended in May.

President Hunter Rawlings and Provost Don M. Randel assumed the university's two top positions on July 1, the day after both Frank H.T. Rhodes and Malden C. Nesheim retired from their posts.

Rawlings, who came to Cornell from the University of Iowa and whose appointment was announced last December, spent the summer settling into his Cornell office and conducting meetings on campus and in New York, Albany and Washington.

He will convene with incoming freshmen and their parents at 10:30 a.m. Saturday, at the President's Reception and Convocation in Barton Hall.

Rawlings' inauguration has been set for Oct. 12, with an academic symposium to be held Oct. 11.

Randel moved his office from Lincoln Hall, where he served for the last four years as the Harold Tanner Dean of the College of Arts and Sciences, to the third floor of Day Hall when he assumed his new post as provost. At Cornell for 27 years, Randel "brings to the position not only a wonderfully broad intellectual reach, but also a depth of involvement and commitment to Cornell that will serve the university well," Rawlings said when the appointment was announced on May 9.

Two acting Cornell administrators were appointed vice presidents in June. Ronald G. Ehrenberg, acting vice president for academic programs and planning, was named vice president for academic programs, planning and budgeting. H. David Lambert,

acting vice president for information technologies, was appointed to that post.

Franklin W. Loew, dean of the Tufts University School of Veterinary Medicine, in May was appointed the eighth dean of the College of Veterinary Medicine, succeeding Robert D. Plemister, dean since 1985, who has returned to teaching and research.

Assuming his post this week is Daryl B. Lund, the 11th dean of the College of Agriculture and Life Sciences, whose appointment was announced in April. Lund previously was agriculture dean at Rutgers University. He succeeds David L. Call, who is retiring after holding the deanship since 1978.

William G. Boice was named director of Cornell Police in early August, after serving as acting director since June 1994 while a nationwide search was conducted.

Direct-lending program is a success at CU

By Linda Grace-Kobas

The direct-lending program for college loans has been "tremendous in terms of student service" during its first year of availability, financial aid officials at Cornell report.

The program's "one-stop shopping scheme" is especially helpful to undergraduate students who deal with financial aid problems by themselves.

At Cornell, more than 80 percent of financially aided undergraduate students who have family incomes less than \$40,000 and/or have minority backgrounds complete financial aid forms without family assistance. Nearly two-thirds of these self-assisting students stated that the direct-lending program decreased the effort to apply for loans in comparison to the previous loan program, administrators discovered through a student survey.

In addition, the university was able to bring down its own costs for handling student loans since the streamlined process did not require as much staff to process paperwork as the old system did. And Cornell was able to reduce drastically the number of short-term loans it provided for living expenses to students whose bank-provided loans were delayed.

The direct-lending program, which began with the 1994-95 academic year, allows students to borrow money for college directly from the federal government through their institutions, instead of from banks. Cornell was one of 104 institutions nationwide selected to participate in the first phase of the program, which is slated to be expanded to about 1,500 institutions this year.

Last week, the U.S. House of Representatives, responding to complaints from the banking industry, approved changes in federal accounting rules that place the program in jeopardy.

"The move to direct lending allowed us to do a much better job in processing student loans," said Thomas C. Keane, acting director of financial aid and student employment at Cornell. "The program is much easier for us to administer, and students very much appreciate the change."

Cornell processed approximately \$50 million in student loans through the direct-lending program last year.

Under the old system, when students

Continued on page 2

NOTABLE

The Empire State Potato Club recently presented **Robert L. Plaisted**, professor of plant breeding and biometry, with its Excellence Award "for his dedication and devotion to potato breeding." It noted that he is a "fine scientist, superb manager, patient teacher, international leader and a real gentleman." Plaisted is at the forefront in developing insect resistant potatoes.

BRIEFS

■ **English teachers:** Interested in helping people from foreign countries associated with the Cornell community? The Cornell Campus Club has a program for teaching English as a second language to persons temporarily in Ithaca. The classes require a two-hour commitment per week, plus preparation. For more information contact Ann Marie Dullea at 277-2488 or Joan McMinn at 277-0013.

■ **English classes:** Registration for free English classes sponsored by the Cornell Campus Club will take place on Thursday, Aug. 31, from 7:30 to 9 p.m. in the One World Room, Anabel Taylor Hall. There is a \$10 registration fee. Classes begin Sept. 5. For further information call Ann Marie Dullea at 277-2488 or Joan McMinn at 277-0013.

■ **English skills:** Visiting academicians who seek improvement in basic English-language skills, particularly speaking and listening comprehension, can sign up for a non-credit, 10-week course meeting Tuesdays and Thursdays from 5 to 7 p.m. Classes run from Sept. 19 to Nov. 30. Program fee is \$450. Deadline to register is Sept. 14. For registration information contact Donna Colunio at the School of Continuing Education and Summer Sessions at 255-7259.

■ **Safety shoes:** The Iron Age shoemobile will offer on-campus shopping at the Environmental Health and Safety Building, 20 Palm Road, on Friday, Aug. 25, from 7:30 a.m. to noon and from 1 to 3 p.m. Employees eligible to receive departmental reimbursement should use an L-order with authorized signature. Employees may visit the shoemobile on work time with supervisory approval. For more information, contact Environmental Health and Safety at 255-8200.

CORNELL Chronicle

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Annual golf outing



Frank DiMeo/University Photography

Head football coach **Jim Hofher** works on his putting game at the annual Ben Mintz-Cornell football golf outing for media at the Robert Trent Jones golf course. Alumnus and ABC News sports correspondent **Dick Schaap '55** was awarded the 1995 Ben Mintz-Cornell Media Award, given for "exceptional support of Cornell in particular and to college athletics in general." Named for the late Cornell sports information director, this is the 18th year the award has been given.

Dean Call honored *continued from page 1*

alumni and friends long-gone from Ithaca confirmed how their lives changed for the better as a result of Call's stewardship.

For the CALS alumni breakfast at Reunion in June, the communication staff at the New York State Agricultural Experiment Station in Geneva, in collaboration with Cornell Media Services, produced a video, "Preparing for the Next Century," detailing Call's vision for the college. It included insightful, illuminating personal vignettes from members of Call's family and colleagues.

One of the highlights featured is Sisler's story of how he and Call went fishing on Cayuga Lake near a research vessel. As they

finished their trip, Sisler began hoisting anchor, but it was difficult to raise.

"I pulled and pulled and pulled," he said. "Then Dave started yelling to cut the line. 'Why? This is a brand new line and a brand new anchor,' I said to Dave." Call made the command decision to cut the line.

"The anchor had pulled up the electric line running from the research vessel to the shore. Had he not cut the line, we might have been fried," Sisler said.

This autumn, in honor of the dean's retirement, the name of Alumni Auditorium in Kennedy Hall officially will be changed to the David L. Call Alumni Auditorium.

Direct-lending program *continued from page 1*

received information about their financial aid package from the university, they would fill out a form to take to a lender. Approved applications then would be sent to a guarantee agency, which would conduct its own review and send forms back to the bank. Banks sent checks, which had to be co-signed by each student, to the university twice a year.

"The process could fall down anywhere along the line and often did," Keane said. "We would have to staff the bursar's office so that about 20,000 students could come in to sign checks twice a year."

When checks were late, students often needed short-term loans to pay expenses. Cornell issued about 1,200 loans in the year before direct lending began, and 300 loans with direct lending, Keane said.

The direct-lending program allows institutions to include the direct loan in an aid package, credit student accounts directly and draw money from federal accounts. The

new program also allows the government to keep interest payments for subsidized loans that would otherwise go to banks.

Some institutions offer both direct-lending and outside-lender programs. For Cornell, "with students coming from all 50 states, we never got to the point where we felt we could go with a single lender," Keane said.

A student survey conducted by financial aid administrators at Cornell and a business professor from Ithaca College last spring indicated that Cornell undergraduates positively evaluated the new loan program in general but that the impact was not equal for all students.

"The students who reported that they completed application forms by themselves had more accurate knowledge about the program and evaluated the program more positively, in comparison to the students who received partial or full assistance from parents/others in completing forms. The majority of the self-assisting students either

Area merchants to hold info fair

Merchant, community and campus groups will introduce their services and products to students during a five-day information fair at Cornell beginning Friday.

The fair, on Ho Plaza in front of Willard Straight Hall, is offered to first-year students and their families and to returning students through Aug. 29.

This is the fourth year that Cornell's campus activities and community relations offices have teamed up with local merchant groups to expose students to the business community, according to David I. Stewart, director of community relations.

"While financial institutions and campus organizations have been offering information for decades, the fair was expanded in 1992 to place a greater emphasis on the off-campus business community," Stewart said.

"The response from merchant groups has grown each year, and the comments from parents and students have been encouraging to us and to the merchants," Stewart added. "This cooperative effort benefits town and gown, with three dozen organizations now participating."

In addition to area financial institutions, participants include Downtown Ithaca Inc., the Colletown Merchants Association, Pyramid Mall Merchants Association, telecommunication companies and transportation services.

The Ithaca Farmers Market and the Tompkins County Solid Waste Division also will be present, along with student and campus organizations. Three area radio stations also will be on hand for live broadcasts.

Campus police investigate theft

Campus police are investigating the theft of a research vessel from the Fisheries Research Ecotoxicology Laboratory on Judd Falls Road.

Chief Investigator Scott Hamilton said investigators believe the 24-foot boat, its trailer and a large amount of diving equipment were stolen during the weekend of July 28-30.

The boat is a white 1968 Penn-Yan Cuddy Cruiser, N.Y. registration 2662-DH and serial number C7567641268621485-05, with a 1992 Mercruiser 3.0L LX, engine serial number OD813452 and engine model number 4-30L100ES. Its white 1991 Shore Land'r trailer has serial number R2450TB.

Equipment stolen includes dry and wet suits, Blizzard regulators, masks, fins, air tanks, dive knives, weight belts, a 9.5 1970s Johnson outboard motor, a down rigger and various other items.

Hamilton asks that anyone with information about the missing boat call the campus police at 255-8950.

are minorities or have family incomes less than \$40,000," stated Yuko Mulugetta and Abraham Mulugetta, chief survey researchers, in the report.

Titled "An Added Dimension to the Debate of Direct Lending: Learning from the Survey of FDSL Student Borrowers," the study was funded in part by the National Association of Student Financial Aid Administrators (NASFAA) and was presented at the organization's annual conference in San Antonio, Texas, in July.

The study was conducted by Keane; Abraham Mulugetta, associate professor of finance/international business at Ithaca College; Yuko Mulugetta, Cornell's director of research and planning analysis for admissions and financial aid; and Donald Saleh, acting dean of admissions and financial aid Cornell. They believe it is the first survey that has examined the users' (students and parents) point of view about direct lending.

Labor leaders will address key issues at ILR forum

By Darryl Geddes

Lynn R. Williams, former president of the United Steelworkers of America, and Edward J. Cleary, president of the New York State AFL-CIO, will speak at the School of Industrial and Labor Relations' (ILR) pre-Labor Day celebration on Thursday, Aug. 31, at noon in G10 of the Biotechnology Building.

The theme of this year's forum is "The Future of Unions."

Williams will discuss key issues affecting the national labor movement, most notably

the merger of the United Steelworkers of America with the United Auto Workers and the International Association of Machinists, which is scheduled to be completed in the year 2000. Cleary will focus on the future of New York unions and the changing role of the state AFL-CIO. Both speakers will address the reorganization under way in the national labor movement and the associated dramatic shifts in union strategy.

Both union leaders have been connected with organized labor for decades. Williams, who served as president of the USWA from 1983 to 1994, joined the organization

in 1947. Cleary, who has been president of the state AFL-CIO since 1984, joined the International Brotherhood of Electrical Workers in 1948.

As president of the Steelworkers Union, Williams played a pivotal role in offering progressive programs to confront the economic and political realities of the 1980s and '90s. He helped restructure the union and furthered such initiatives as the implementation of employee stock ownership plans.

Cleary has presided over a period of growth at the New York State AFL-CIO.

While union membership nationwide has dropped dramatically over the years, membership in the state AFL-CIO has increased from 2.1 million to 2.3 million members.

Aside from union mergers, membership decline and leadership change, labor is fighting an uphill battle with Congress, which threatens to weaken the National Labor Relations Board, the agency designed to prevent or correct unfair labor practices.

The ILR School, which celebrates its 50th anniversary this year, has used its annual Labor Day Forum to address and discuss key issues relating to unions.

NEH awards five grants for CU programs

Cornell has been awarded five grants totaling more than \$312,000 from the National Endowment for the Humanities (NEH).

The Cornell awards were among 203 new humanities grants totaling \$17.9 million announced by NEH this month. The grants nationally will support 68 summer-study and curriculum-development programs for college faculty, 62 summer-study programs for schoolteachers and a variety of public programs.

"These grants will provide some excellent new opportunities for teachers, professors and members of the public alike to examine the ideas and events, the complexities and achievements of American civilization and the world's various cultures," NEH Chairman Sheldon Hackney said in announcing the awards. "Every project funded represents a high level of scholarship and a broad outreach to numerous and richly diverse audiences."

NEH grants to Cornell are:

- Peter A. Agree, editor at Cornell Press, received a \$7,000 grant to support the publication of a study of James Madison's political thought during the founding era of the United States. The study, by Lance Banning of the University of Kentucky, is "The Sacred Fire of Liberty: James Madison and the Founding of the Federal Republic, 1780-1792."

- John G. Ackerman, director of Cornell Press, received a \$7,000 grant for the publication of a historical study of the transformation of the absolutist state in 18th century Germany and the role of sexual mores in the emergent civil society. The study is titled "Sexuality, State and Civil Society in Germany, 1700-1815" and was written by Isabel V. Hull, chair of the Department of History.

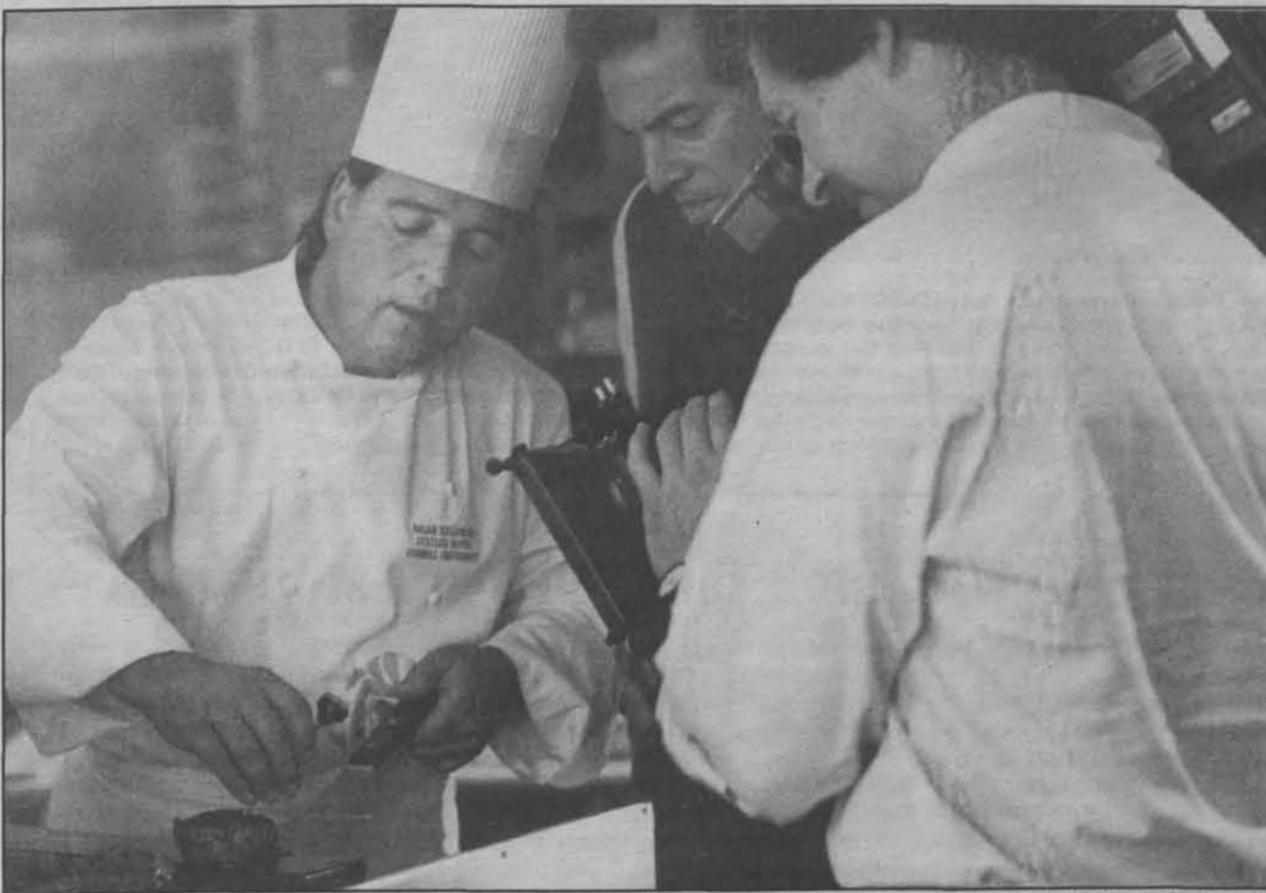
- Robert G. Calkins, professor of art history, was awarded \$92,205 to conduct a six-week summer seminar in Paris for schoolteachers on "The Gothic Cathedral as a Mirror of Medieval Culture." The seminar will investigate the Gothic cathedral as a reflection of changes in religious attitudes and the goals of patronage, innovations in art, architecture and technology, and visual messages in the sculpture, stained glass and architectural design.

- The Department of Philosophy will administer a \$96,907 award for a summer seminar for college teachers on "The Metaphysics of Mind." The eight-week seminar, directed by John Heil of Davidson College, will examine metaphysical issues in the philosophy of mind, such as the ontological status of minds, brains and mental states.

- Sidney G. Tarrow, the Maxwell M. Upson Professor of Government, received a \$109,227 grant to conduct a summer seminar for college teachers on "New Departures in the Comparative Study of Revolution." This eight-week seminar will examine recent theories by historians, political scientists and sociologists that attempt to explain the causes of revolutions and the conditions for their success.

Created by Congress in 1965, the National Endowment for the Humanities is an independent agency that supports research, education, preservation projects and public programs in the humanities.

Well done



Robert Barker/University Photography

Pointing the meat thermometer toward the video camera, Cornell's Statler Hotel executive chef, Brian Halloran, shows Arnold Diaz, reporter with ABC-TV's 20/20, what a well-done hamburger should look like. The segment on cooking hamburger meat safely - that is, killing any potential *E. coli* bacteria - will air in late September.

Corson-Rikert named interim health director

By Jacquie Powers

Dr. Janet Corson-Rikert, a Cornell physician since 1992, has been named interim director of University Health Services.

She replaces Dr. Leslie Elkind, who left Cornell in August to become medical director at the student health center of the University of California, Santa Cruz.

Corson-Rikert is a 1974 graduate of Harvard University and a 1978 graduate of Harvard Medical School.

Dr. James Macmillan, a 1971 Cornell graduate and 1975 graduate of Cornell



Corson-Rikert

Medical College, will assist Corson-Rikert as interim deputy and clinical director. He joined University Health Services in 1979.

Leonard Nissenson will continue in his role as administrative director.

"I am pleased to welcome Janet and Jim to their new responsibilities and grateful that we have such depth of talent and leadership in University Health Services," said Susan H. Murphy, vice president for student and academic services. "I know they will continue to maintain the high quality of care and service we have come to expect from University Health Services."

"Dr. Elkind has provided strong leadership to University Health Services since 1987. We are grateful for his efforts in behalf of students, faculty and staff during

his years with us," Murphy added.

Murphy said she will be reviewing the leadership structure of University Health Services in the fall before launching a national search in 1996. She hopes to have the new leadership in place for the 1996-97 academic year.

"We will take this opportunity to assess the model we wish to have lead us into the new century at University Health Services," Murphy said.

Corson-Rikert graduated valedictorian from Ithaca High School. From 1987 to 1992 she was director of health services and school physician at Phillips Exeter Academy in Exeter, N.H.

Macmillan was attending physician for Planned Parenthood of Tompkins County before joining the Cornell staff.

Cornell Abroad student injured in Jerusalem bomb blast

A Cornell student was among more than 100 people injured in Jerusalem Monday when a bomb ripped apart a bus during morning rush hour. Five people, including an American tourist, were killed.

The terrorist group Hamas, which opposes peace efforts in the Middle East, claimed responsibility.

Judith Shulewitz, 19, a sophomore

in the the university's College of Arts and Sciences who is spending the year at Hebrew University in the Cornell Abroad program, was treated and released the same day from Shaarei Zedeck Hospital.

An Associated Press news report filed from Jerusalem quotes Shulewitz, who was interviewed in her hospital bed, as saying she would complete her

program at Hebrew University before returning to Cornell to finish her degree in international studies.

Shulewitz is one of five Cornell students in Israel this semester, two at Hebrew University and three at Tel Aviv University, Ben DeWinter, director of Cornell Abroad, said.

Her hometown is Jamison, Pa., outside of Philadelphia.

Services for children



Charles Harrington/University Photography

Family Life Development Center (FLDC) staff met with officials from the state Department of Social Services (DSS) Aug. 7 to review programs for the coming year. The FLDC provides training for child protective services agencies across the state. Attending the meeting, from left, were James Garbarino, FLDC director; Marylee McPherson, Martha Holden and Michael Nunno of FLDC; Margo Velez-Lemmerman and Millie Grossberg of DSS; David Avenius, DSS deputy commissioner; Charles McClintock, associate dean of the College of Human Ecology; Tammie Martin and Christine Miller of the Office of Sponsored Programs; and Josephine Swanson of Cooperative Extension. Carol Anderson, assistant dean of Cooperative Extension, also participated in the meeting.

CIT's annual computer fair offers one-stop services

By Barbara Yien

Wondering how to get connected to the information superhighway? Interested in purchasing a new computer? Looking for a place to upgrade or repair hardware? Cornell Information Technologies' (CIT) 8th annual Back-to-School Fair is your one-stop answer to all of these questions and more.

The fair, to be held Aug. 25, 26, 28 and 29 from 9 a.m. to 5 p.m. in Lynah Rink, will showcase CIT services available to students. Representatives from some of the computer industry's leading vendors — Apple, IBM, Lexmark, Hewlett Packard, Microsoft, Radius and US Robotics — will be on hand to demonstrate products and answer questions.

Among CIT's offerings this year are a number of prepackaged systems called Big Red Machines, which are computers that have been preloaded with software designed to meet the needs of Cornell students. Big Red Machines come with Bear Access already installed. Bear Access is Cornell's suite of Internet applications, such as electronic mail, the World Wide Web, course information, the Cornell Library Catalog and periodical databases, to name just a few.

They also come with virus protection software, a coupon worth \$100 or 5 percent off your next purchase and an "enhanced warranty" allowing consumers up to \$150 worth (about two hours) of repair service.

Transportation will be available at the fair to take students, their parents and their purchases back to the residence halls.

"We don't tell people that they have to own a computer," said Larry Fresinski, director of CIT Sales and Services. "There are public and college labs available all around campus. But if it's something that [they] want to have, the university has gone the extra mile to try and provide a machine appropriate for the Cornell environment."

More people have preordered machines from CIT this year than ever before, Fresinski said. An annual problem, however, is that CIT sells more product than vendors can provide. This year, several Apple products that were preordered — in particular the Performa 5200 and the PowerMac 7100 — probably will not arrive in time for the fair.

About 70 people will be affected. In response to the problem, CIT has contacted

these individuals and will allow them to borrow equipment from CIT inventory — a "very unusual" service for a higher education reseller, said Fresinski.

"We're trying very hard to ensure that students who are coming to Cornell and who have preordered will have something," he said. CIT will attempt to provide machines as similar to the preordered product as possible, and in the event that preordered product never arrives at all, students may purchase the borrowed hardware with a \$100 discount, Fresinski added.

Besides sales, the Back-to-School Fair

CIT's eighth annual Back-to-School Fair, to be held Aug. 25, 26, 28 and 29 from 9 a.m. to 5 p.m. in Lynah Rink, will showcase CIT services available to students. Representatives from some of the computer industry's leading vendors will be on hand to demonstrate products and answer questions. Parents can learn about communicating electronically with their children at a separate booth at registration.

also will offer demonstrations of Bear Access and EZ-REMOTE, a service that allows people to connect to the Cornell campus network and the Internet with modems.

Every new Cornellian will be given a network identity (Net ID) and password upon registration, and technologically savvy students can begin computing immediately, said Billie Dodge, manager of CIT Consulting Services.

Students living in any of the residence halls may sign up for the Residence Hall Network Service and use their computers and an Ethernet card to get online. This service provides a high-speed, direct network connection and precludes the need for a modem. The service is available for a residence hall service fee of \$165 per year.

Phone 255-255-9627 for details.

You'll see some changes at the fair this year, according to Fresinski. Lines will be shorter with the implementation of a ticket system. More documentation, including a map, will be available to help consumers navigate the fair. Furthermore, products will be housed entirely inside Lynah Rink, instead of outside as they have been in the past. CIT also will offer upgrade and repair services at the fair for people who want to add memory to, or are having difficulties with, their machines.

Although the fair is targeted toward new students, there are benefits for faculty, staff and parents, as well. Faculty, for instance, can speak directly with vendors and manufacturers to see how technology can impact the classroom, Fresinski said.

Parents can explore the fair's exhibits while their children take advantage of the various services. CIT will operate a Parents Booth, separate from the fair, at registration on Aug. 25. The booth staff will offer general information about Bear Access and will provide information on how parents can send e-mail, using various commercial providers, to students at Cornell. If parents also are Cornell alumni, they can get Internet access through Cornell with CU-Connect, a for-fee service sponsored by CIT and the Cornell Alumni Federation.

CIT also will provide information about the short, mandatory Travelers of the Electronic Highway classes. All new Cornell students — undergraduate, transfer and graduate — must complete this 50-minute class, which covers Bear Access basics. The times, locations and deadlines for class completion will be available at registration.

CIT instructors will lead most of these classes, although the Vet, Law, JGSM and Hotel School staff will teach those for their students. Students must complete the course by their respective deadlines, as their Net IDs and, consequently, their access to the Cornell campus network will be disabled if they do not.

Students should come to the CIT fall events "to experience the flavor of all the different technologies available and to see how technology might impact their education," Fresinski said. "Then they can decide whether they want to personally have it available."

CU-SeeMe brings live events online

By William Steele

When President Lee Teng-hui of Taiwan spoke at Cornell, newspapers reported highlights and commercial television networks broadcast sound bites. Cornell itself provided access to the entire speech via CU-SeeMe videoconferencing software. The software, developed by Cornell Information Technologies programmer Tim Dorcey with guidance from Richard Cogger, CIT's director of advanced technology planning, allows ordinary desktop computers to send and receive audio and video over the Internet.

The Lee speech was only one of an increasing number of "CU-SeeMe events" popping up here and there on the Internet. Among others:

- A speech by President Bill Clinton at Dartmouth College's commencement.
- "Earthwatch," in which live images from seven continents were displayed together for 24 hours to commemorate Earth Day.
- A concert by Cornerstone, an Ithaca-based bluegrass band.
- Almost a whole day of the Kerrville, Texas, Folk Festival.
- An AIDS benefit concert in California.
- Hurricane pictures from the Gulf coast.
- Live NASA feeds of shuttle missions.

"I call it 'narrowcasting,' as opposed to broadcasting," said Kevin Feeney, the Cornell technician who provided a video feed of the Lee speech to the Internet. "The news media send something out to millions of people at once, whether they want it or not. On the Internet, just the people who really want something can come and ask for it."

Not everyone is happy about these uses of CU-SeeMe. "We're not making the best use of the technology," Dorcey said. "Broadcast events tend to generate a lot of publicity but may end up drawing attention away from the interactive potential of the technology."

CU-SeeMe, Dorcey pointed out, was developed to allow people in widely separated locations to meet "face to face" over the Internet. You set up a little camera on top of your computer monitor and send pictures of yourself that appear on a half-dozen other people's screens, while the other people's pictures appear in small windows on your own. Corporate boards of directors have been using CU-SeeMe to meet online instead of traveling. Scientists in Antarctica use the software to keep in touch with their families and to describe their work to groups of high school students. Some people leave their CU-SeeMe setups running all day long, transmitting pictures of themselves sitting at their desks and occasionally glancing at similar pictures of colleagues — who might be in the next office or across the continent.

The first large-scale interactive "public event" occurred last week when Boston Mayor Thomas Menino joined several "new media" experts in New York City and in Pinedale, Wyo., for an online discussion. New York Mayor Rudolph Giuliani was scheduled to take part but was called away by a death in his family. The New York participants connected from the @Cafe, a New York bistro that features computer terminals at every table.

According to Dorcey, who attended, the CU-SeeMe part of the event worked perfectly for local participants, but the cafe's Internet connection was inadequate to allow much outgoing conversation to Boston or Wyoming. The event will probably be repeated in the near future with Giuliani present, according to the sponsors.

Nevertheless, Dorcey was pleased. "I'm quite excited about it," he said. "This interactive meeting is something you couldn't do with TV, and the tie-in with representative government is a natural. We're hoping to someday see congressmen routinely running CU-SeeMe between Washington and their home districts."



Cornell remembered

The exhibition *Remembering Cornell* offers a time-traveling panorama of people, places, songs and ideals. On view until Sept. 9, the exhibition honors two Cornellians who re-tired this year, President Frank H.T. Rhodes and University Archivist Gould P. Colman, and is in memory of Richard M. Ramin, vice president of public affairs. The core of the exhibition is in the Kroch Library Exhibition Gallery and Olin and Uris libraries. Documentary displays are in Mann and Catherwood libraries, and the libraries of the Law School, Fine Arts, Hotel School, Africana and Music. The New York State Agricultural Experiment Station at Geneva has an exhibit in the Statler Auditorium foyer. All exhibits are free and open to the public.



COMMENTARY

Restructuring academia for the next century

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By Rodney R. Dietert

Many of our institutions have experienced a recent elevation in expectations of accountability for the stewardship of public financial support and private donations. Therefore, it is not surprising that academia has come under increasing scrutiny of its overall performance. At issue is the capability of universities and colleges to deliver quality products in a cost-effective manner.

While it can be argued that the fruits of a successful education can have a long ripening time, it is nevertheless important that our universities and colleges examine potential new operating structures that could improve effectiveness. Such structures should have as performance criteria: (1) to increase the impact of universities and colleges in education, research/scholarship and outreach (for land-grant institutions); and (2) to raise satisfaction among faculty and staff over the extent to which their efforts bear societal fruits.

Recently, a chasm has developed between current faculty expertise and its potential applications for societal benefit and the restrictive academic boundaries within which our faculty and staff must perform. Yet, potential changes in academia could help colleges and universities meet the highest expectations of a skeptical public.

Curriculum drives cooperation

The need for academic reform has been evident in recent curricular changes. In many universities, traditional department-based curricula have been folded into more integrated approaches to learning. Such changes reflect the need to educate students using a different curricular organization.

In some cases, these changes in curriculum are indicative of the routes that universities can take to enhance relevance. For example, many institutions have developed cross-disciplinary core curricula that draw faculty from several departments to provide students with an integrated educational base. Such training can enhance the effectiveness of subsequent academic specialization that a student may pursue.

These courses also provide opportunities for students to learn "team" approaches to problem-solving, the type of challenges they will face later in their careers. Likewise, some professional degree programs, such as the Cornell veterinary program, have developed strategies to allow students to learn in a case-based multidisciplinary mode. Academic commitment to cross-department efforts generally is rare and can occur only with major administrative commitment.

Academic training vs. staffing

Our "academic challenge" is best illustrated by graduate education and the current battle of modern scholarship and its use for public good vs. historic academic structure. As new disciplines emerged over the past century (such as biochemistry, immunology, toxicology and public policy), a schism developed. This occurred between the societal need for rapidly evolving training of doctoral students and the subsequent application of their expertise in novel settings, in contrast to the relatively static capacity of traditional academic departments to fulfill this need.

The problem was recognized early on at Cornell and led to the separation of graduate training and its organization from that of the slower-evolving department structure. This permitted timely adjustments in graduate training programs, enabling current complex issues, such as AIDS and environmental sustainability, to be addressed. However, such useful approaches to graduate training have not altered the basic dilemma that many traditional academic departments are based on, and still defined by, societal needs of prior centuries.

Given this reality, it is important for colleges and universities to develop strategies that will enable a more rapid evolution of academic structure to serve all mis-



Rodney R. Dietert

University Photography

sions within academia. Such strategies, while providing for a continuation of vital services from traditional departments, should permit faculty the freedom to utilize their expertise in cross-department and cross-college endeavors.

To facilitate an academic climate change, it is necessary for deans, department chairs and central university administrators to give multidisciplinary and multicampus endeavors the same priority as parochial initiatives. This means that deans, for example, must be willing to commit hard-won college resources to multicampus programs. In academic turf terms, this borders on heresy. Yet, this is precisely the sort of reform that is required.

Our constituents outside the university will applaud academic changes that facilitate the full and unimpeded mobilization of faculty expertise to address real-world challenges; this can occur only with greater adaptability of academic structure.

College tithing

One piece of the academic evolutionary puzzle is the commitment of college resources by deans to cross-college, universitywide initiatives. These initiatives could range from modest curricular efforts to entire degree programs and encompass either program research opportunities or coordinated outreach projects. The dedication of faculty time and resources by deans could be considered as a tithe from individual colleges to support the university as a whole. In the end, both colleges and departments would reap significant benefits as faculty based in their academic structures gain previously unrealized attention for contributions to major multidisciplinary endeavors.

Rather than view this tithe as a drain on the individual college, deans should perceive this as the vehicle for attracting faculty across the university to programs that the public expects and, in some cases, demands. The litmus-test question that every dean should ask is: "Do the solutions to specific societal challenges fall exclusively within the boundaries of the specific college or department?" If the answer is no, then the tithe not only is warranted but also is likely to be increasingly expected by our constituents in the future. Those universities that deliver on such programs will have a deserved competitive edge in the next century.

Value-added faculty lines

In addition to the need for deans and department chairs to embrace multidisciplinary initiatives as a mandate and a paradigm of operation, it also is necessary to approach faculty staffing from a new perspective. Traditionally, colleges and departments have tended to examine the relative value of filling faculty positions only in the context of department need. For the academic climate to change in the future, it is important that staffing priorities be considered from the standpoint of a balance between parochial (department) necessities and potential universitywide impact.

Under a so-called value-added concept, one faculty line, in which the faculty member teaches an important

course in one department but also could contribute to a special cross-college degree program or program research project, would have added value over a second faculty vacancy in which the contributions did not extend beyond the respective department. Use of this priority system for filling faculty vacancies would result in both an enhanced commitment to real-world multidisciplinary initiatives and a more rapid evolution of the university's ability to meet societal needs.

Standardized faculty recognition

Another vital element in academic-restructuring is the need to ensure that faculty contributions are appropriately credited without regard to the university setting. Although this is a potential problem confronting all faculty, junior faculty may face the greatest jeopardy in devoting even a portion of their academic effort toward college- or universitywide programs. If faculty cannot achieve the same credit and performance recognition for cross-department endeavors as for core department initiatives, then universities should change their process for faculty review.

It also is important to recognize that education and scholarly endeavors spanning several disciplines are not necessarily the easiest route for faculty to pursue. Normal benchmarks of performance—such as publications and awards through scientific societies—may be achieved with greater difficulty through cross-college team efforts than when faculty pursue more provincial endeavors. Regardless of societal impact, multidisciplinary team efforts are not likely to be viewed as major contributions to any single discipline.

A Cornell model

There is no more obvious societal problem than the challenge of identifying environmentally sustainable processes through which environmental conservation, continued economic vitality and enhanced quality of life all can be met. It is a dilemma that universities are uniquely suited to address.

Expertise is required from the disciplines of economics, engineering, ecology, earth sciences, law, public policy, natural resources, toxicology, biomedical areas and other disciplines. While many universities have the faculty expertise required to address complex environmental issues, few universities utilize that expertise for this purpose.

Recently, Cornell faced this challenge by developing a novel approach to academic structure. The university established the Center for the Environment (CfE) in 1991. The center, with more than 200 faculty and programmatic activity involving all 10 Cornell colleges, includes stand-alone, environmentally related institutes, such as the Institute for Comparative and Environmental Toxicology, as well as faculty-based programs (in areas such as biodiversity). CfE serves as an institutional incubator for the development of new research, curricula and outreach related to environmental topics. Most important, it represents the needed vehicle for faculty participation in broad-based environmental initiatives.

Most faculty participate in CfE on a voluntary or brokered basis, although several positions are actually shared with specific departments. The willingness of departments and colleges to allow faculty participation in center initiatives is crucial to its success. The CfE operates one doctoral degree program (environmental toxicology) and is developing a professional master's degree in environmental management. It also has the benefit of a full-time government-affairs representative to ensure that the breadth of faculty expertise contributes positively to state and national public policy and legislation on the environment. The strength of this type of academic structure is that it provides a conduit for all of Cornell's environmental initiatives with impact that extends well beyond single college efforts.

The ultimate success of this type of umbrella academic structure will fall on the three elements (tithing, priority staffing and faculty credit) necessary for multidisciplinary progress. While the final grade is not yet in, the Cornell model offers a type of academic revolution. Fortunately, it is the type of restructuring revolution that could be transferred to many institutions across the country with few academic casualties.

Dietert is director of the Institute of Comparative and Environmental Toxicology, senior fellow in the Center for the Environment and professor of immunogenetics in the College of Veterinary Medicine's Department of Microbiology, Immunology and Parasitology.

About Commentary . . .

Members of the Cornell community are invited to submit "Commentary" articles of no more than 800 words for consideration by the *Chronicle*. Topics should be of importance to higher education in general or, specifically, to Cornell faculty, staff or students. Submissions should be sent to Chronicle Commentary, Cornell News Service, 840 Hanshaw Road.

CORNELL RESEARCH

Crystallography maps structure of key enzyme

By Roger Segelken

Biochemists at Cornell and Michigan State University have produced the most detailed map to date of the molecular geometry of urease, the enzyme that degrades urea, for a finding that could lead to better agricultural fertilizers and anti-bacterial vaccines.

The structural determination, using X-ray crystallography, was achieved less than one-quarter mile from the Cornell lab where Nobel Laureate James B. Sumner (chemistry, 1946) first crystallized urease nearly 70 years ago for the then-controversial proof that enzymes are proteins.

Reporting in the May 19 issue of *Science* were Evelyn Jabri and P. Andrew Karplus, graduate student and associate professor, respectively, of biochemistry at Cornell, and Mary Beth Carr and Robert P. Hausinger, graduate student and professor, respectively, at Michigan State. The accomplishment was discussed in a sidebar article titled "At Last—the Crystal Structure of Urease."

Urease, a metalloenzyme with two nickel ions at each active site, is produced by some plants, bacteria and fungi. It catalyzes the breakdown of urea to ammonia and carbon dioxide. In plants, urease is an important part of their nitrogen metabolism. For urease-producing bacteria, the enzyme lets them use externally and internally generated urea as a nitrogen source. Some of these bacteria also are considered virulence factors, particularly in urinary tracts, where their presence can result in kidney stones. In gastrointestinal tracts, infections with the bacterium *Helicobacter pylori* can lead to stomach ulcers. The action of urease-producing, soil-dwelling bacteria prevents much of the nitrogen in urea-based fertiliz-



Adriana Rovers/University Photography

P. Andrew Karplus, associate professor of biochemistry, right, and Evelyn Jabri, graduate student, with the X-ray diffraction machine used to determine the structure of urease, the enzyme that degrades urea.

ers from reaching the intended crop plants.

Urease-inhibitors could control some bacteria in the stomach and urinary tracts, Jabri noted, and the addition of urease-inhibitors to urea-based fertilizers could increase crop yields. Also, urease-based vaccinations could stimulate the body's antibodies to resist *H. pylori*.

The Cornell-Michigan State team achieved 2.2 Angstrom resolution in determining the crystal structure of urease from the soil bacterium *Klebsiella aerogenes*, providing a detailed view of the nickel ions and the active site. Knowing the molecular structure of urease will facilitate structure-based design of improved urease inhibitors, Karplus said.

The biochemists at first focused on

K. aerogenes urease because its crystal form refracts to high resolution, and they now are trying to determine the structure of jack bean urease, first crystallized by Sumner from seeds of that African plant. They expect that the structure of *K. aerogenes* urease, as well as those from plants and other bacteria, will provide insight into the enzyme's catalytic mechanism and into the special role played by nickel ions, which rarely are seen in metalloenzymes.

Sumner spent a decade, beginning in 1917, trying to isolate urease and nearly as long trying to convince a skeptical scientific establishment of his achievement. Writing in the June 1937 *Journal of Chemical Education*, Sumner described

one such encounter.

"I have read about your isolation of urease, which is not true," Sumner quoted University of Berlin Professor Hans Pringheim as saying in 1928 when he was the Baker Non-resident Lecturer at Cornell. "I know too little about it to tell you why, but if you will come to Baker Laboratory sometime and describe your work on urease before my class, then I shall tell you where you are wrong."

Sumner delivered that lecture and endured a series of questions from the still-unpersuaded Pringheim, who finally demanded: "Why did you have the presumption to think that you could isolate an enzyme when so many of our great German chemists have failed?"

Cornell Turtle Team gives threatened species a dietary head start

By Roger Segelken

Just one year at the right college is enough to mature some youngsters, a joint project of Cornell's College of Veterinary Medicine, New York's Department of Environmental Conservation and the Nature Conservancy's Lower Hudson Chapter is demonstrating.

Hours after their September hatching in a Dutchess County, N.Y., Nature Conservancy preserve, Blanding's turtles (*Emydoidea blandingii*) were rushed to the Wildlife Health Laboratory at the Veterinary College, raised for 10 months, then returned to the wild. The freshman year with a special diet made them the equivalent in size of a 3- or 4-year-old Blanding's turtle.

"These days most Blanding's hatchlings are eaten by predators, such as snapping turtles and herons," said George V. Kollias, the professor of wildlife medicine who heads the Cornell portion of the turtle project.

"If they survive those first few months, they can live to 70 years of age, but most adults we're seeing are around 20. We're missing entire generations of Blanding's, and that's not good for the long-term survival of the species."

Nature Conservancy ecologists monitored the Blanding's turtles in Dutchess County (the only New York area, besides the upper St. Lawrence River, in which



George V. Kollias

Ready for release in a Nature Conservancy preserve, this 10-month-old Blanding's turtle grew to the size of a 4-year-old with care and feeding by the Cornell Turtle Team. Researchers hope that rapid growth and reproduction will replace missing generations of the threatened species.

they are found) for several years.

"We determined the need for some pro-active management," said Jim Curatolo, an ecologist for the organization, which operates the preserve for several turtle species. Since *E. blandingii* was declared a "threatened" species in New York in 1983, their numbers have dwindled so far that they now deserve the

"endangered" label, Curatolo and other experts agree.

So Nature Conservancy monitors followed female turtles during nesting season and place nest-protectors over eggs to keep out hungry skunks, raccoons and opossums. Once the eggs hatched, half the young were released immediately.

The rest joined the Ivy League, where

the Cornell Turtle Team (22 veterinary and undergraduate students and the Wildlife Health research staff) cared for the 10-member *E. blandingii* Class of '95. College life seemed to agree with the onctiny turtles; by the time they were released in June, they had grown as big as 4 inches—nearly half the adult length. Returned to the preserve with radio transmitters, they were monitored this summer by a student intern, Alexandra Barrientos.

Not dining hall food but commercial aquaculture chow gets the credit for the turtles' rapid growth, said Kollias, the Jay Hyman Chair in Wildlife Medicine. That gave him an idea for further research into the relationship between nutrition and reproduction, research that could jump-start the Blanding's population.

Like many other reptiles, the turtles' physical size is as important as age in determining reproductive maturity, he explained. In the wild, *E. blandingii* normally take longer than humans to reproduce—about 16 years—and before then too many meet untimely ends. However, a captive-breeding population, raised on fast-grow diets, could replace the missing generations of Blanding's, he proposes.

The next class of Blanding's is due at Cornell soon after the human freshmen arrive this week. Researchers hope for the turtles what every dean of students fears—rapid reproduction.

CALENDAR

August 24
through
August 31

All items for the Chronicle Calendar should be submitted (typewritten, double spaced) by campus mail, U.S. mail or in person to Chronicle Calendar, Cornell News Service, Village Green, 840 Hanshaw Road.

Notices should be sent to arrive 10 days prior to publication and should include the name and telephone number of a person who can be called if there are questions.

Notices should also include the subheading of the calendar in which the item should appear.

dance

Cornell Dance Series

Meredith Monk will present "Songs From the Hill" Sept. 1 at 8 p.m. in the Proscenium Theatre at the Center for Theatre Arts.

Cornell International Folkdancers

Open to the Cornell community and the general public. Beginners are welcome; no partners are needed. For info, call Marguerite at 539-7335.

Aug. 27, 7:30 p.m., Fox trot taught by Marguerite Frongillo; 8:30 p.m., open dancing and requests, Maplewood Community Center.

exhibits

Johnson Art Museum

The Herbert F. Johnson Museum of Art, on the corner of University and Central avenues, is open Tuesday through Sunday from 10 a.m. to 5 p.m. Admission is free. Telephone: 255-6464.

- "Paintings From the Boissier-Leviant-Smithies Collection," through Aug. 27.
- "In Celebration: Women's Rights and Women's Art," through Aug. 27.
- "Light and Shadow: Mezzotints From the 17th Century to the Present," through Oct. 14.
- "Augustus Vincent Tack: Landscape of the Spirit," through Oct. 22.
- "Cornell Art Department Faculty Exhibition," Aug. 26 through Oct. 15.

Cornell Library

"Remembering Cornell" is displayed throughout Olin, Kroch, Uris, Mann and other libraries through Sept. 9. A souvenir guide is available.

Hartell Gallery

Ithaca artist Renate Ferro will exhibit a retrospective of her *Birthwork* series, 1986-1995, at the Hartell Gallery in 129 Sibley Dome. Birthwork combines drawing, printmaking, collage and artist's books in reflecting on the imperative of women's choice and the attendant joys, uncertainties and challenges of creativity. A reception for the artist will be held Tuesday, Aug. 29, from 5 to 7 p.m.

films

Films listed are sponsored by Cornell Cinema

unless otherwise noted and are open to the public. All films are \$4.50 (\$4 for students and kids under 12), except for Tuesday night Cinema Off-Center at the Center for Theatre Arts (\$2) and Saturday or Sunday matinees (\$3.50). Films are held in Willard Straight Theatre except where noted.

Sunday, 8/27

Student films, 8 p.m.

Monday, 8/28

"The Freshman" (1925), directed by Fred Newmeyer and Sam Taylor, 7 p.m.
"Tokyo Story" (1953), directed by Yasujiro Ozu, with Ryu Chishu and Setsuko Hara, 9 p.m.

Tuesday, 8/29

"Imagined Communities" (1991), directed by Maggie Millman, 7 p.m.
"Vertigo" (1958), directed by Alfred Hitchcock, with James Stewart and Kim Novak, 9:45 p.m.

Wednesday, 8/30

"Tokyo Story," 7 p.m.
"La Strada" (1954), directed by Federico Fellini, with Giulietta Masina and Anthony Quinn, 9:45 p.m.

Thursday, 8/31

"La Strada," 7 p.m.
"Outbreak" (1995), directed by Wolfgang Petersen, with Dustin Hoffman, Morgan Freeman and Donald Sutherland, 9:30 p.m.

graduate bulletin

• **Academic orientation:** Dean of the Graduate School Walter Cohen welcomes new students Aug. 30, 3 p.m., Alumni Auditorium, Kennedy Hall. Reception will follow in the Big Red Barn.

• **Graduate student orientation:** Programs begin Aug. 25; brochures are in field offices, Big Red Barn Graduate and Professional Center, Graduate School, and in the Information and Referral Center in Day Hall.

• **Fall registration:** Registration is in the Field House, 9 a.m. to 5 p.m. New students only on Aug. 28; continuing students with "holds" on Aug. 29. Continuing students with no "holds" do not need to go to the Field House. Check "Just the Facts" to determine if you have a "hold."

• **English test:** The English Placement Test will be held in Hollis Cornell Auditorium, Goldwin Smith Hall, on Aug. 28 at 9:30 a.m. Entering international students who satisfied the language requirement with a TOEFL score below 600 must take this examination.

• **Faculty meeting:** Sept. 8, 4 p.m., General Committee Room, Sage Graduate Center. The meeting is to vote on August degrees.

• **Teaching assistant workshops:** Sept. 9; registration forms are available at graduate field offices or at the Office of Instructional Support, 14 East Ave., Sage Hall, phone 255-3493. There is no charge to students.

lectures

Southeast Asia Program

"A Publishing Episode in Vietnam in 1752 and the Southeast Asia Program Today at Cornell," Keith Taylor, Asian studies, Aug. 31, 12:15 p.m., Kahin Center, 640 Stewart Ave.

religion

African-American

Sundays, 5:30 p.m., Robert Purcell Union.

Baha'i Faith

Fridays, 7 p.m., firesides with speakers, open discussion and refreshments. Meet at the Balch Archway; held in Unit 4 lounge at Balch Hall. Sunday morning prayers and breakfast, 7 a.m.

Catholic

Weekend Masses: Saturday, 5 p.m.; Sunday, 10 a.m., noon and 5 p.m., Anabel Taylor Auditorium. Daily Masses: Monday-Friday, 12:20 p.m., Anabel Taylor Chapel. Sacrament of Reconciliation, Saturday, 3:30 p.m., G-22 Anabel Taylor Hall.

Christian Science

Testimony and discussion every Thursday at 7 p.m., Founders Room, Anabel Taylor Hall.

Episcopal (Anglican)

Sundays, worship and Eucharist, 9:30 a.m., Anabel Taylor Chapel.

Friends (Quakers)

Sundays, 11 a.m., meeting for worship in the

Meredith Monk to open season at CU Center for Theatre Arts

By Ann Campbell

Meredith Monk, the world-renowned singer, choreographer, dancer, composer and filmmaker, will open the 1995-96 season at the Center for Theatre Arts when she graces the Proscenium stage on Sept. 1 at 8 p.m.

A recipient of the 1995 MacArthur Genius Grant, Monk will appear at Cornell as part of the Cornell Dance Series.

Tickets are \$10; \$8 for students and seniors and are available at the center's box office or by calling 254-ARTS.

"She sings and you may hear an old woman keening or, perhaps, a seductive siren gradually turning into something completely inhuman. A saw cutting through glass, for instance. All without words," said the *New York Times* of her intoxicating vocals. Monk will perform a solo concert that combines her extraordinary voice with movement. Through her exploration of voice as instrument, Monk has become a pioneer in what is now called "extended vocal technique" and has developed a truly breathtaking vocal range—from E flat below middle C to high E flat.

Monk, a fourth-generation singer, entered the New York avant-garde with the Judson Dance Theatre upon graduating from Sarah Lawrence College in 1964. In 1968 Monk



Bob Shamis
Meredith Monk

founded The House, an innovative organization dedicated to an interdisciplinary approach to performance. "Meredith Monk and Vocal Ensemble" was then developed in 1978 to perform her unique vocal compositions. Monk composes in much the same way a choreographer does, molding material to the performers with whom she works. She has made 10 recordings of her work, as well as a film titled *Book of Days*, which aired on PBS.

During her 30-year career, the 52-year old artist has won three Obies, two Guggenheim Fellowships, a Bessie, two Villager Awards, sixteen ASCAP Awards for Musical Composition and numerous other recognitions.

"When the time comes, perhaps a hundred years from now, to tally up achievements in the performing arts during the last third of the present century, one name that seems sure to loom large is that of Meredith Monk. In originality, in scope, in depth, there are few to rival her," wrote *The Washington Post*.

Dedicated to bringing innovative dance to the Cornell and Ithaca communities, the Cornell Dance Series is presented by the Department of Theatre Arts, with support from the Cornell Council for the Arts. Other events in the 1995-'96 series include *Cornell Dance Concert '96* (March 7-10, 1996) and *Dance Alloy* (March 29, 1996).

Subscriptions to the Cornell Dance Series are \$28; \$22 for students and senior citizens. Single event tickets are \$10; \$8 for students and senior citizens.

Workshop to explore small-business issues

Federal programs that support small-business research for government agencies and link small businesses and research institutions will be explained in a workshop at Cornell on Sept. 21.

"Funding for Small Businesses" is scheduled from 8:30 a.m. to noon at the Biotechnology Building and is planned for the business community, academics and entrepreneurs. It is sponsored by the Cornell Center for Advanced Technology (CAT) in Biotechnology.

Explaining the application process for the Small Business Innovation Research (SBIR) and Small Business Technology Transfer (STTR) programs will be Marcie Sonneborn, SBIR specialist for the Central New York Technology Development Organization.

Registration deadline for the workshop is Sept. 11. To register, a \$25 check per person, payable to "Cornell CAT-Biotechnology," should be sent to Jennifer Willet, Cornell CAT in Biotechnology, 130 Biotechnology

Building, Cornell, Ithaca, N.Y. 14853-2703. For more information on the workshop, call Mike Comella at (607) 255-4665, e-mail <mvc2@cornell.edu>.

The SBIR program is geared to stimulate technical innovation, use small businesses to meet federal research-and-development needs and increase commercialization of federal R&D. Federal agencies are mandated to set aside 1.5 percent of their annual R&D budgets for SBIR, which awarded more than \$693 million to small businesses in 1992 alone.

STTR is similar to SBIR but requires that some research be carried out through a partnership between small businesses and research institutions, such as Cornell. The Central New York Technology Development Organization assists small businesses, those with fewer than 500 employees, in the SBIR/STTR application process, while the Cornell CAT arranges university access for businesses and entrepreneurs.

Edwards Room of Anabel Taylor Hall. Discussions most weeks at 9:50 a.m., 314 Anabel Taylor Hall.

Jewish

Morning Minyan at Young Israel, 106 West Ave., call 272-5810.

Saturday Services: Orthodox, 9:15 a.m., Edwards Room, ATH; Conservative/Egalitarian, 9:15 a.m., Founders Room, ATH.

Korean Church

Sundays, 1 p.m., chapel, Anabel Taylor Hall.

Latter-day Saints (Mormon)

Discussions on the Book of Mormon: Wednesdays, 7:30 p.m., 314 Anabel Taylor Hall. All are invited to come and discover the religious writings of ancient American cultures.

Sunday services: Cornell Student Branch, 9 a.m., Ithaca ward, 1 p.m. For information, call 272-4520, 257-6835 or 257-1334.

Muslim

Friday Juma' prayer, 1:15 p.m., One World Room, Anabel Taylor Hall. Daily Zuhr, Asr, Maghreb and Isha' prayers at 218 Anabel Taylor Hall.

Protestant Cooperative Ministry

Sundays, 11 a.m., chapel, Anabel Taylor Hall.

Sri Satya Sai Baba

Sundays, 10:30 a.m., 319 N. Tioga St. For details call 273-4261 or 533-7172.

Zen Buddhist

Tuesdays, 5 p.m.; Thursdays, 6:45 p.m., chapel, Anabel Taylor Hall.

seminars

Fruit & Vegetable Science

"Thesis: The Influence of Postharvest Heat Treatment on the Shelf-Life Qualities of Fresh Market Tomato," Chime Paden Wangdi, fruit & vegetable science, Aug. 31, 4 p.m., 404 Plant Science Building.

miscellany

Alcoholics Anonymous

Meetings are open to the public and will be held Monday through Friday at 12:15 p.m. and Saturday evenings at 5 p.m. in Anabel Taylor Hall. For more information call 273-1541.

Cornell Savoyards

Auditions for the fall production, *Rudwigore*, will be held Sept. 6 from 7 to 9 p.m. in 403 Barton Hall. Leading roles for: four baritones, one tenor, one soprano, one mezzo, one alto, including large chorus. Appointments are encouraged. Accompanist provided. Monologue or reading encouraged. Also looking for technical crew. Info: 257-0496.