

CORNELL Chronicle

Volume 28 Number 5 September 19, 1996

WELCOME HOME

Alumni and friends return to campus this weekend and will enjoy a full slate of Homecoming events.

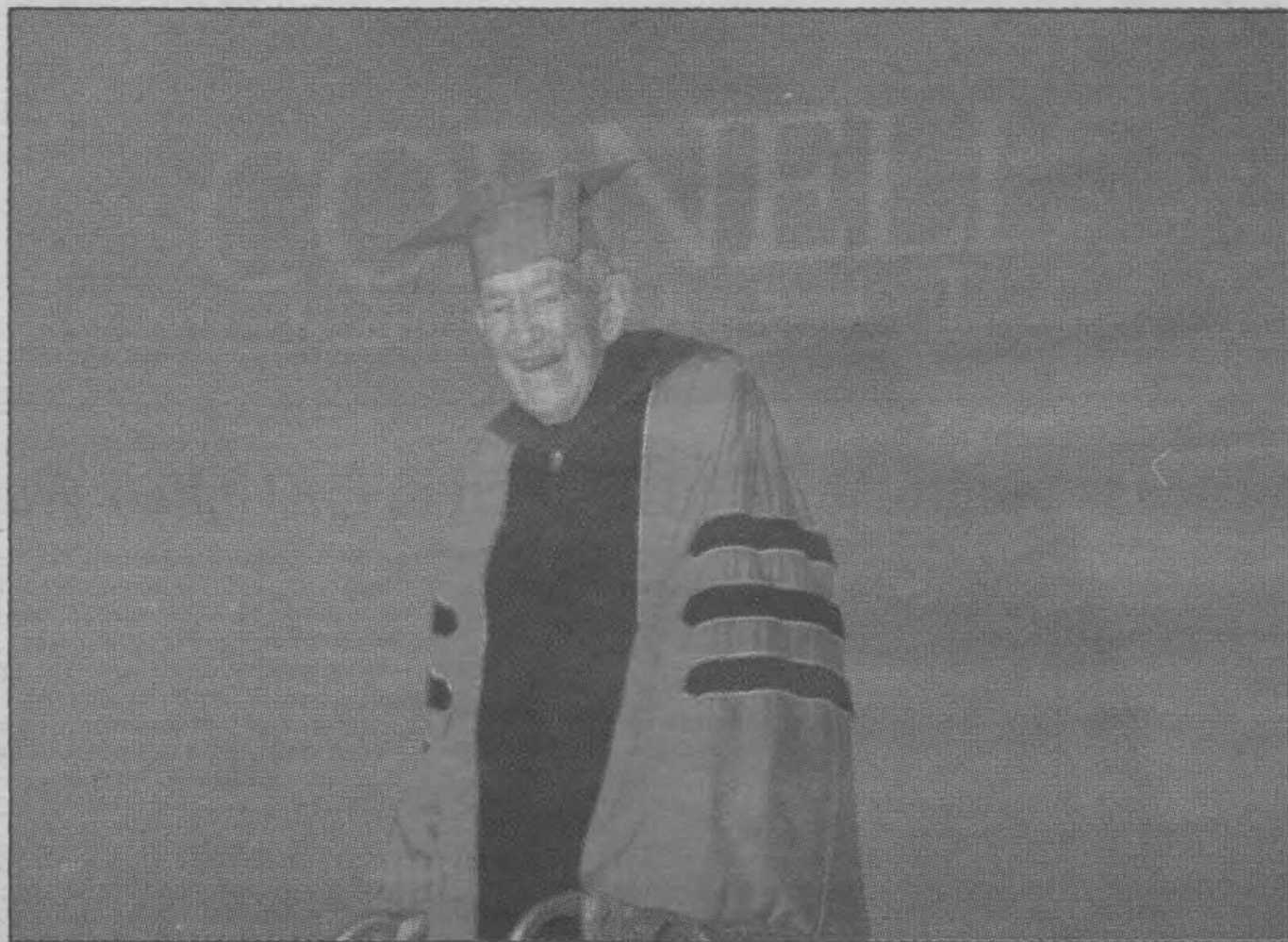
3

GOOD FOOD, GOOD MEDICINE

Phytochemist finds Uganda's gorillas may self-medicate with bacteria-fighting fruit.

5

President Emeritus Malott dies at age 98



Cornell President Emeritus Deane W. Malott acknowledges a Barton Hall audience during inaugural ceremonies for President Hunter Rawlings on Oct. 12, 1995.

Robert Barker/University Photography

He is remembered for his energy and vision

Deane W. Malott, Cornell president from 1951 to 1963, died Wednesday, Sept. 11, at his home in Ithaca. He was 98.

Malott became Cornell's sixth president in 1951. He presided over a period of rapid expansion of the university in the post-World War II years. Under his direction, Cornell's budget grew from \$42 million at the start of his tenure to \$110 million, faculty salaries increased by more than 60 percent and growth in sponsored research grew from less than \$15 million to more than \$45 million annually.



Malott

which literally transformed the Cornell campus during his presidency. But he will be remembered far longer as the

President Hunter Rawlings said, "Deane Malott will be remembered by some as a builder of buildings — for teaching, for research, for student housing and other pressing needs —

builder of the intellectual landscape that characterizes Cornell today. I feel privileged to have known Deane Malott, even though for all too brief a time, and I was delighted that he was a part of my inaugural ceremonies last October."

President Emeritus Frank H.T. Rhodes, Rawlings' predecessor, said, "Deane Malott was one of Cornell's greatest presidents. He brought new energy, new vision and new support to the university in every area of its life and work, and he did it with

Continued on page 4

Vet incinerator permit process is suspended at CU request

At the request of Cornell, the permitting process for the replacement incinerator at the university's College of Veterinary Medicine has been suspended by the New York State Department of Environmental Conservation (DEC), and the university is inviting community and campus groups to participate in an advisory committee on the project.



Loew

In response to a number of concerns voiced by community members, Cornell asked the State University Construction Fund (SUCF), lead agency on the project, to request that the DEC delay the process until additional data on a number of questions can be generated and evaluated. The permitting process was halted Aug. 7.

Cornell is in the process of reaching out to community and campus organizations to join a community advisory committee that will discuss all aspects of the incinerator issue. Franklin M. Loew, dean of the College of Veterinary Medicine, and Harold D. Craft, Cornell vice president for facilities and campus services, will co-chair the committee.

"The university is fully willing to enter into a dialogue with members of the campus community and our neighbors concerning the environmental and public-health issues associated with the project," Loew said. "Community concerns are important, and the advisory committee provides a formal way of integrating those concerns."

"We intend to discuss all aspects of the project with the committee. We take the community concerns seriously, and it is our intention to be responsive to the advice" that the committee members offer, Craft and Loew write in their letters being sent to

Continued on page 2



Craft

Entomologist identifies Asian beetle threatening Brooklyn shade trees

By Blaine P. Friedlander Jr.

A tree won't grow in Brooklyn.

Cornell scientists have confirmed what they believe is the first known infestation of an Asian long-horned beetle, *Anoplophora glabripennis*, a large beetle that is attacking Brooklyn's horse-chestnut and maple tree population.

The Norway maple is the most planted shade tree throughout New York state.

This beady-eyed beetle, about 1-inch long, has coal-black wing covers sprinkled with startling white spots, and its black-and-white antennae are long and impressive. The beetle is not harmful to humans, but it was found devastating trees in the Greenpoint neighborhood of northern Brooklyn.

U.S. border entrances are jealously guarded to keep such pests from infiltrating this country. Native to Japan, Korea and the southern sections of China, this is the first time this beetle has been seen outside of Asia, said E. Richard Hoebeke, Cornell senior extension associate and assistant curator in entomology.

It did not have a ticket to ride. "I don't know how it got here from Asia," Hoebeke said. "As if the trees in an urban environment are not traumatized enough as it is. This doesn't bode well for a tree that is under a lot of pressure to grow."

New York City's Department of Parks and Recreation sent samples of the beetles to Carolyn Klass, Cornell Cooperative Extension entomologist in Ithaca, to determine the species. Klass had not seen the species before and showed it to her colleague, Hoebeke.

"I gasped when I saw it," Hoebeke said. "I knew this wasn't a species native to North America."

These beetles might prove to be the ultimate Brooklyn dodgers. Short of cutting down the maple and horse-chestnut trees, there is little that can be done to curb the Greenpoint infestation, Hoebeke said, adding that there are no known natural predators.

For back-up species confirmation, Hoebeke sent specimens to the Carnegie Museum of Natural History, Pitts-

Continued on page 6



Charles Harrington/University Photography

An Asian long-horned beetle, *Anoplophora glabripennis*, discovered recently in Brooklyn, on a cross-section of a tree it has damaged. The large holes the beetle creates inhibit the tree's vascular system and ultimately kills the tree.

Incinerator *continued from page 1*

'Community concerns are important, and the advisory committee provides a formal way of integrating those concerns.'

— Franklin M. Loew

groups invited to send a representative.

Among those being invited to appoint a representative are: the Tompkins County Board of Representatives; Ithaca Town Board; Forest Home Improvement Association; Cornell Greens; United Progressives; Student Assembly, Employee Assembly, University Assembly, Graduate and Professional Student Assembly and Faculty Senate; Citizens Concerned About Regulated Medical Waste; Southern Tier Veterinary Medical Association; Cornell-Ithaca Safety Committee; Tompkins County Society for the Prevention of Cruelty to Animals; and New York Farm Bureau. The committee will meet as soon as its membership is established.

The committee will have the opportunity to define its areas of concern. "We have purposely left the process as open as possible," Craft said. "The committee's work will seriously influence Cornell's decision. No issue related to the incinerator is outside the scope of the committee's interest."

Cornell has been working with SUCF since 1991 to plan and construct an upgraded, state-of-the-art replacement incinerator for the College of Veterinary Medicine on campus. The proposed facility would incorporate the latest pollution-control devices and be the third in a series of incinerators on the site that have been burning the college's medical waste for almost 40 years.

The university's objective is to provide the cleanest and most effective replacement facility in order to protect the health and safety of its students, faculty and staff, as well as residents of the surrounding community. The facility would incinerate animal remains from the veterinary college, as well as from the county SPCA and local veterinarians.

As currently designed, the replacement incinerator would have the capacity to destroy regulated medical waste (RMW) — needles, infectious agents and other plastics involved in clinical and research activities — as well as animal remains. But Cornell officials said that is one of the principal items that would be discussed with the committee.

University officials repeated their earlier assurance that the proposed incinerator would not be used as a regional center for burning RMW. Cornell is not considering regularly taking RMW from other sources, and the permit applications currently on hold with DEC would not permit it.

Cornell in times past



Division of Rare and Manuscript Collections, Cornell University Library
This photo, taken in the 1930s during an unidentified event — possibly related to Commencement — shows Bailey Hall in the background, Liberty Hyde Bailey's Model Schoolhouse and Lua Minns' Garden, now the site of Malott Hall.

Cornell community asked to pitch in for United Way

Dear Colleagues:

This year's 75th anniversary celebration of the Tompkins County United Way has specific significance to Cornell — it marks the number of years that the university has played an active role in promoting our community's well-being through this vital community organization. Be it with the early days when faculty volunteers wrote polite letters to their colleagues soliciting pledges, or today as university employees opt to have their pledges automatically deducted from payroll, Cornell has always been a major contributor to and partner of the United Way. I note that over the past few years, however, there has been decreased participation among Cornell employees, and our long-valued partnership has lost some of its effectiveness.

In the 1994-1995 campaign, 30 percent of the university's employees gave to the United Way. In last year's campaign, this number fell, with only 25 percent of faculty and staff submitting pledges. Considering

Cornell United Way campaign information is available on the Web at <<http://www.gsm.cornell.edu/unitedway/>> or from Rhonda Velazquez at <rhv2@cornell.edu> or by phone at 255-6418.

that Cornell is the largest employer in the county, it seems to me, as a relative newcomer, that we could do better.

The Tompkins County United Way is an organization whose collected funds go to service agencies that directly affect the community. When money raised by the United Way is given to agencies such as the American Red Cross, Alcoholism Council and Mental Health Association, it goes to the local chapters of these national organizations. This local redistribution guarantees that funds stay within the area to provide what is needed here. Indeed, most of the organizations helped by the United Way are not chapters at all but rather purely local entities that exist only to serve residents of Tompkins County.

These local agencies cover a wide range of needs met by the United Way funds. Member organizations are numerous and diverse (39 agencies, offering over 100 programs), including agencies such as Literacy Volunteers of Tompkins County, Boy Scouts of America and Ithaca Rape Crisis, to name a few. Many Cornell employees, or their families, experience firsthand the benefits of these agencies and programs through services they themselves use.

Taking these facts into account, I have to wonder why we have let our participation decline. We have every reason to continue our long-held partnership with the United Way. It is one as mutually beneficial as it is necessary.

This is why I ask that when you receive a pledge card this fall, remember your gift makes a difference right at home in your community, and please, give generously. Thank you.

— Franklin M. Loew
Cornell Campaign Chair

BRIEFS

LaFrance memorial service: A memorial service for Ron LaFrance, former director of the Cornell University American Indian Program, will be held at Cornell on Friday, Oct. 4. The service will be in Sage Chapel from 2 to 3 p.m., followed by a reception at Akwe:kon at 3:30 p.m. Among those speaking at the service will be David L. Call, the Ronald P. Lynch Dean Emeritus of the College of Agriculture and Life Sciences; Daniel Usner, associate professor of American history; Donald J. Barr, professor of human service studies; and Ramona Connors, Akwe:kon residence hall director. LaFrance, 51, died July 29 at his home on the Akwesasne Reservation near Hogansburg, N.Y.

Area farm tour: On Saturday, Sept. 21, the public is invited take a bus tour of area

farms to experience the diversity of farming in this region. The tour, co-sponsored by Cornell Cooperative Extension of Tompkins County and the Ithaca Farmers' Market, will visit farms along Route 34B, north of Ithaca, in Lansing and King Ferry. Tour stops include the Melon Foundation, Ridge House Garden, Treleaven King Ferry Winery, Cornell's Lansing Orchard and Fessenden Dairy Farm. The hosts will provide an overview and tour of their operation, as well as samples of the products they produce. The tour leaves at 1 p.m. from the Ithaca Farmers' Market parking lot, at Steamboat Landing, and it will return by 7 p.m. For a tour brochure and a seat on the bus, call Cooperative Extension at 272-2292. The cost per adult is \$12, children from 6-17, \$5, under 6 free. Preregistration is required.

NOTABLES

Roberts S. Summers, the McRoberts Research Professor of Law, was elected May 7 as a corresponding member of the Austrian Academy of Sciences in recognition of his contributions to legal philosophy and jurisprudence. He has authored many books and articles in these fields and has lectured widely in Europe, Great Britain and the United States on various topics in the theory of law. During the 1985 spring semester, Summers was a visiting Fulbright Professor at the University of Vienna. In the summer of 1990, he was a member of the Annual Salzburg Seminar Faculty. In December of 1995 he delivered three lectures at the University of Vienna on the Formal Character of Law.

Elizabeth Hess, a nurse practitioner at Gannett Health Center, has been selected as one of two representatives of the Ithaca Breast Cancer Alliance, and one of 46 representatives from organizations across the country, to serve on the National Review Panel of the congressionally mandated Breast Cancer Research Program. This year the Breast Cancer Research Program will be responsible for allocating \$75 million in federal funds to research projects on the treatments, cause and potential cures for breast cancer. The panel begins meetings in Washington this month.

CORNELL
Chronicle

Henrik N. Dullea, Vice President for University Relations
Linda Grace-Kobas, Director, Cornell News Service
Simeon Moss, Editor
Larry Bernard, Science Editor
Jacquie Powers, Education Editor
Karen Walters, Editorial Assistant
Dianna Marsh, Circulation
Writers: Blaine P. Friedlander Jr., Darryl Geddes, Jill Goetz, Susan Lang, Roger Segelken and Bill Steele.

Published 43 times a year, the *Cornell Chronicle* is distributed free of charge on campus to Cornell University faculty, students and staff by the University News Service.

Address: 840 Hanshaw Road, Ithaca, NY 14850
Phone: (607) 255-4206
Fax: (607) 257-6397
E-mail: cunews@cornell.edu
Web: <http://www.news.cornell.edu/Chronicle.html>

Mail Subscriptions:

\$20 per year. Make checks payable to the *Cornell Chronicle* and send to Village Green, 840 Hanshaw Road, Ithaca, N.Y. 14850. Second-Class Postage Rates paid at Ithaca, N.Y. POSTMASTER: Send address changes to the *Cornell Chronicle* (ISSN 0747-4628), Cornell University, 840 Hanshaw Road, Ithaca, N.Y. 14850.

Copyright Notice:

Permission is granted to excerpt or reprint any material originated in the *Cornell Chronicle*.

CORRECTION

The date of a lecture by Frank Press, senior fellow with the Carnegie Institution of Washington, D.C., and an A.D. White Professor-at-Large this semester, was incorrectly reported in the Sept. 12

edition. The lecture, titled "Out of Chaos: A Better Way to Support Science," is scheduled for 4:30 p.m. Monday, Oct. 21, in the Hollis E. Cornell Auditorium of Goldwin Smith Hall.

Big Red alumni return to celebrate Homecoming '96 this weekend

By Jill Goetz

Cornell alumni will revisit their alma mater this weekend for Homecoming 1996, the university's annual fall celebration featuring educational, athletic and social events for all members of the Cornell community.

Highlights will include, naturally, Saturday's Big Red football game — this year against the Princeton Tigers, the current Ivy League champions. Kickoff is Saturday at noon in Schoellkopf Field. At the all-alumni pregame rally and tailgate party, alumni can meet President Hunter Rawlings and Elizabeth Trappnell Rawlings, Athletic Director Charlie Moore '51 and the 1996 Athletic Hall of Fame inductees; festivities begin at 10 a.m. in the Lynah Rink parking lot tent.

Also preceding the game will be the Class of 2000

tailgate party, hosted by alumni from the classes of '60 and '90, as part of the Cornell Association of Class Officers' "Welcoming the Future" program; it starts at 10:30 a.m. in the Lower Kite Hill parking lot.

Alumni also can attend three post-game celebrations: the young alumni post-game party (in the Lynah Rink parking lot tent); the all-alumni post-game celebration (in the Hall of Fame Room); and the Big Red Barn post-game celebration and buffet. All begin immediately following the game.

Other Homecoming highlights include, on Friday:

- Open classes ranging from The American City to Environmental Law;
- Career forums sponsored by the School of Industrial and Labor Relations and Johnson Graduate School of Management;

• The second annual Homecoming book signing, with local authors Lisa Cowden and Kip Wilcox, and their cookbook *Sweetness & Light: A Book of Desserts* and free food samples from the book; economics Professor Robert Frank, with his best-selling *The Winner-Take-All Society: Why the Few at the Top Get So Much More Than the Rest of Us*; MFA graduate Edward Hardy, with *Geyser Life: A Novel*; and Lecturer Marcelle Lapow Toor, with *The Desktop Designer's Illustration Handbook*; book signings are from 3 to 5 p.m. in the Cornell Campus Store;

• "Greening the Concrete Jungle," the Audrey Harkness O'Connor lecture by Judith D. Zuk, president and chief executive officer of the Brooklyn Botanic Garden, 7:30 p.m. in the David L. Call Alumni Auditorium of Kennedy Hall;

Continued on page 4

Senior citizens + school kids + plants = intergenerational learning

By Roger Segelken

The boredom and isolation of life in a nursing home, the shortage of mentors for inquisitive children, the need for more greenery in the world — all can be addressed through intergenerational cooperation, according to a Cornell horticulturist with a plan to send senior citizens back to school.

Horticulture Intergenerational Learning as Therapy (HILT) came about because Vincent Lalli, a schoolteacher-turned-graduate-student in Cornell's College of Agriculture and Life Sciences, hated to see keen minds and skilled hands idle. The result: Adults in their 80s and 90s are visiting schools to teach kids about plants, using a hands-on science curriculum developed by Cornell educators and horticulturists.

"Unfortunately, society doesn't have very high expectations for the elderly, especially those in the nursing homes," said Lalli, an elementary middle-school teacher for 30 years. "These people are like jewels. They're a treasure, and they're starved for opportunities to share their wisdom and their skills."

At least that's what Lalli hoped when he approached nursing home administrators with what he now acknowledges is a far-out idea: Why not transport seniors to local schools for part of a day and let them work, one-on-one, with children in plant science projects? To his surprise, several nursing homes in upstate New York agreed, and so did school administrators and teachers.

After pilot testing the program with schools in Ithaca and Clifton Springs and with 4-H youth groups in Geneva, Lalli offers training workshops and is preparing guidebooks to take HILT state- and even nationwide. His inspiration, Lalli said, is his late mother, who enjoyed teaching neighborhood children about plants.

HILT learning activities are geared to the grade level. Younger children, with a little help from the seniors, test their dissection skills on a variety of seeds and discover how germplasm in things as different as tiny



Adriana Rovers/University Photography

Agriculture and Life Sciences graduate student Vincent Lalli, left, leads students in Paula Kilts' kindergarten class at Cayuga Heights Elementary School through a plant experiment in the Horticulture Intergenerational Learning as Therapy (HILT) program, with the help of senior citizens Fritz Clausen (in hat) and Edna Love.

marigold seeds and large lima beans can produce growing plants. Older students may, for example, explore the mysteries of reproduction (plant-style) with experiments in pollination (sexual) and plant-cutting propagation (asexual).

"We tell the seniors they don't have to be university-educated scientists," said Lalli, who earned a master's degree in Cornell's Department of Floriculture and Ornamental Horticulture. "We provide the lesson plans. All they need is to like plants and children,

and have the willingness to be valuable assets as mentors."

The senior citizens are always accompanied by nurses and attendants when they travel to the schools. "You can see it in their eyes when they're getting ready to go to the schools," one nursing home administrator told Lalli.

"Programs like this can build confidence, self-esteem and independence in the seniors and youth," Lalli said. "The result is both individual and collective growth."

HILT is one of 16 Graduate Student Outreach projects at Cornell, where students each year share with local school children their expertise in subjects ranging from astrophysics and African-American literature to human genetics and archaeology. The intergenerational aspect helps make HILT successful, Lalli believes.

"Of course, plant science is helped by the fact that kids love to get their hands dirty," he said. "They're thrilled to learn that people 70 and 80 years their senior like to, too."

State Supreme Court ruling upholds CU's sexual harassment procedures

A New York State Supreme Court Justice has issued a ruling upholding Cornell's sexual harassment procedures in a \$1.5 million lawsuit brought against the university by a tenured professor.

State Supreme Court Justice Phillip R. Rumsey issued his decision in the case of *Maas v. Cornell University* on Sept. 10.

In eight specific charges brought against Cornell, Rumsey ruled:

• The Maas lawsuit's claim that Cornell's actions were "unfair, illegal or improper" was dismissed.

• Cornell's College of Arts and Sciences "had the authority to promulgate rules for the governance of its personnel. . . . Cornell's documentation sufficiently substantiates the defense that the A&S College acted within the ambit of its authority under the Charter and By-Laws of the University."

• To the allegation that Cornell breached a contract with Maas in the handling of the sexual harassment complaint: "None of the allegations in this very detailed complaint state the terms of the existing contract or specify a provision of the contract between Maas and Cornell University which was violated."



Mingle

• No Title IX provision was violated by Cornell, Rumsey's decision states, noting, "The complaint does not contain one fact that remotely alleges Maas was discriminated against by Cornell on the basis of his gender."

• Addressing the charge that Cornell breached an oral promise that the sexual harassment proceedings would remain confidential, the court ruled that Cornell had no legal obligation to prevent "alleged breach of confidentiality by participants in the proceedings, where not subject to control by Cornell. . . ." The court also noted that Cornell's news release in June 1995 followed a published detailed comment from Maas in the *Chronicle of Higher Education* on Feb. 24, 1995.

• In rejecting the claim that Cornell disrupted Maas' outside speaking and other prospective business opportunities, the Court concluded that the lawsuit fails to show that Cornell used any unlawful means in its administration of the procedures which "the A&S College had the authority to adopt."

• Justice Rumsey let stand two claims of negligence because he was unable to conclude at this stage whether a Workers' Compensation Law defense requires dismissal of those claims as well.

Cornell believes those claims will be disposed of in the future. Cornell has 60 days to study the decision and provide an order to the court documenting the dismissal

of the six claims.

"Cornell University is extremely pleased with Justice Rumsey's decision in this case," said James J. Mingle, university counsel.

"The ruling validates Cornell's procedures and supports our contention that at no time were Professor Maas' rights violated," Mingle said.

Thomas Mead Santoro, deputy university counsel who served as the lead litigator in the case, added that he is confident of the strength of the university's position on the two remaining claims, which will be addressed in future pleadings in the case.

The lawsuit against Cornell was filed by the Center for Individual Rights, an advocacy group based in Washington, D.C., on behalf of James Maas, professor of psychology. The case arose out of administrative hearings held in September, October and November of 1994 in Cornell's College of Arts and Sciences in which Maas was accused of sexual harassment by four students.

The College of Arts and Sciences' Professional Ethics Committee concluded unanimously that Maas had engaged in "inappropriate conduct effectively constituting sexual harassment" and recommended sanctions against Maas. The committee's decision was sustained by the dean of the college. Maas' appeal of the dean's ruling was rejected by the University Provost.

Deane W. Malott

Cornell President 1951-1963



Photographs from the Division of Rare and Manuscript Collections, Cornell University Library
President Deane W. Malott poses in his Day Hall office, with McGraw Tower in the background.



Top: President Malott talks with a group of students on Libe Slope in the 1950s. Bottom: Malott and his wife, Eleanor, ride on the official Class of 1912 vehicle - a fire engine - during Reunion celebrations on campus in 1952.

Deane Malott *continued from page 1*

a sense of humor and grace that won friends far and wide. In all this, his late wife, Eleanor, was an energetic and devoted partner. Cornell has lost a champion, and many Cornellians have lost a wise counselor and a treasured friend."

Prior to coming to Cornell, Malott was chancellor at the University of Kansas for 12 years. His earlier career included teaching and administrative responsibilities at the Harvard Graduate School of Business Administration and a business career as a

personal assistant to James Dole, founder of the Dole Pineapple Co.

Malott served on the boards of directors of Pitney-Bowes, the B.F. Goodrich Co., General Mills Inc., Owens-Corning Fiberglass, Lane Bryant Inc., the Citizens Bank of Abilene, Kan., and the First National Bank of Ithaca. He was a trustee of the Midwest Research Institute, the Teagle Foundation and the Corning Museum, a member of the Business Council and a consultant to the Association of American

Colleges. He served under Presidents Truman, Eisenhower and Johnson on a number of commissions and boards.

Deane Waldo Malott was born July 10, 1898, in Abilene, Kan. He received a bachelor's degree from the University of Kansas in 1921 and a master's degree from Harvard Business School in 1923. His father, M.H. Malott, known as the "dean of Kansas bankers," was founder and board chairman of the Citizens Bank in Abilene.

His wife, the former Eleanor Sisson Thrum, died in 1994. He is survived by three children: Robert H. Malott of Kenilworth, Ill.; Janet Malott Elliott of Ocala, Fla.; Edith Malott LaBonte of Palo Alto, Calif.; nine grandchildren and nine great-grandchildren.

A memorial service will be held Sunday, Oct. 20, at 3 p.m. in Sage Chapel on campus. The service will be followed immediately by a reception at the Herbert F. Johnson Museum of Art.

Homecoming Weekend *continued from page 3*

sponsored by Cornell Plantations.

And, on Saturday:

- "International Agriculture: The Past, Present and Future Role of Cornellians, Cornell and the College of Agriculture and Life Sciences," panel discussion with Barber Conable, chair of the World Bank's Environment Committee and former New York congressman and president of the World Bank; Uma Lele, adviser to the vice president for environmentally sustainable development at the World Bank; and distinguished Cornell faculty; 9:30 to 11 a.m. in the David L. Call Alumni Auditorium. Registration is required; call the College's alumni affairs office at (607) 255-7651.

- Presentation of the Frank H.T. Rhodes Exemplary Alumni Service Awards, Saturday evening at the Statler Hotel. The 1996 recipients are Esther Schiff Bondareff '37, Richard W. Brown '49, Fred J. Eydt '52, Margaret Gaffney Graf, J.D. '73, Eli Manchester '52, B.M.E. '53, and Ernest L. Stern '56. All will be recognized for their outstanding

service to Cornell through long-term volunteer activities in a variety of Cornell alumni organizations.

- "As Time Goes By," a piano jazz concert by faculty members David Borden and Edward Murray in Barnes Hall, at 8:15 p.m.

- A Glee Club fall concert in Sage Chapel, also at 8:15 p.m. Tickets are \$5.

Throughout the weekend, alumni will have many opportunities to get reacquainted with campus, in guided walking tours of the general campus and of such sites as the McGraw Tower chimes, Herbert F. Johnson Museum of Art, Center for Theatre Arts, Botanic Gardens and Carl A. Kroch Library and even a "virtual" tour of Cornell on the Internet.

And, on both evenings, the Cornell Department of Theatre, Film and Dance will present performances of "Tartuffe" in the Proscenium Theatre of the Center for Theatre Arts at 8 p.m.

Homecoming will conclude on Sunday with an 11 a.m.

service in Sage Chapel featuring guest speaker Dean Robert Giannini of Christ Cathedral Church in Indianapolis.

People are encouraged to purchase tickets in advance for Saturday's all-alumni pre-game rally and tailgate party from the Office of Alumni Affairs 255-2390, and for the football game from the athletics ticket office at 255-7333. Reservations are also appreciated, though not necessary, for the Big Red Barn post-game buffet; call 255-5555.

"We encourage alumni of all ages and disciplines to return to Cornell for Homecoming 1996," said Margaret M. Gallo '81, director of reunion and alumni programs in the Office of Alumni Affairs. "It's a time to reconnect with your alma mater - the campus, the faculty, the current student body and, most importantly, each other."

For more information about Homecoming 1996, call the Office of Alumni Affairs at 255-7085 or visit the Homecoming 1996 Website at <<http://www.cornell.edu/Events/Homecoming/>>.

CORNELL RESEARCH

Biologist: Gorilla's fruit snack may be just what the doctor ordered

By Roger Segelken

For Cornell biologist John P. Berry, knowing the punch line to the joke, "Where does an 800-pound gorilla eat?" is not enough.

Certainly, the mountain gorillas he studies in Uganda's impenetrable Bwindi forest eat wherever they want. Whatever, too.

But *why* is the key question in the field of zoopharmacognosy, the study of animals that use plants for medicine. Berry, a graduate student in the laboratory of noted Cornell phytochemist Eloy Rodriguez, knows enough about *Gorilla gorilla beringei*'s dietary preferences to open Gorilla My Dreams Cafe. He is focusing on a fruit with anti-bacterial properties that even the savvy apes may not understand.

"When you watch gorillas eat in habitats with wide plant diversity, you see why we say they're living in a salad bowl," said Berry, recently returned to Ithaca after another observation and plant-collecting trip to the Bwindi National Park. "They eat practically everything in reach — leaves, stems, bark, fruit — and they barely move. When you come back the next day, they're eating a few meters away." Working with trackers who are hired to observe and protect the mountain gorillas, Berry has documented mountain gorillas eating more than 40 different types of plants.

"They eat some pretty unappealing stuff, too, like pith and rotten wood," said Berry, who has personally sampled much of the gorilla fare. "But so far I haven't found the kind of self-medication that we see in chimps and *Aspilota*," he said, referring to the first- and best-known example of zoopharmacognosy.

Eloy Rodriguez, now the Perkins Professor of Environmental Studies at Cornell, and Richard Wrangham of Harvard University, in 1985 showed that thiarrubrine was the active chemical (against intestinal nematode parasites) in the *Aspilota* leaves that wild chimpanzees seek when they have upset stomachs. The queasy chimps pick *Aspilota* leaves and roll them around in their mouths, rather than chewing, before swallowing the capsule-like leaves whole. They swallow as many as 15-35 *Aspilota* leaves at a sitting, particularly in the rainy season, when the rate of parasitic infection is highest.

Furthermore, *Aspilota* also may have some anti-bacterial effect, Berry, Rodriguez and Marcus McFerren noted in a 1995 article for the American Society of Plant Physiologists' publication,



John Berry, graduate student in plant biology, measures the antimicrobial properties of *Aframomum* fruit extracts by filter disc assay.

Adriana Rovers/University Photography

Phytochemicals and Health. When Berry found mountain gorillas eating fruit of the wild ginger plant called *Aframomum*, which has anti-bacterial properties, the question became: Why?

The finger-sized, urn-shaped *Aframomum* fruits grow a few inches above the ground on a plant whose distinctively shaped fronds reach 9 feet high. The bright red, sweet fruit of one *Aframomum* species is a favorite of Ugandan children and is sold in the marketplace and at roadside stands. But mountain gorillas don't need to go that far; they gather and swallow the fruit along with their other salad items.

Back in his Ithaca laboratory, Berry found that some species of *Aframomum* fruit prevent the growth of bacteria, including some strains of *E. coli* and *Pseudomonas*. Could it be that gorillas — and human kids, too — are getting a dose of medicine along with their sweet snack? If so, that might add another natural, plant-based treatment to the medicine chest — one of the goals of zoopharmacognosy.

But before prescribing *Aframomum* fruit for bacterial infection, Berry acknowledges that he must answer some basic questions: "We need to get a better handle on the taxonomy and learn which

species are growing where, which ones the gorillas are eating and which are eaten by humans," he said. "We need more tests of activity against pathogenic bacteria. I'd like to know how this fruit affects the gorillas' micro flora — the 'good' digestive bacteria in their gut — and whether their micro flora have developed a resistance to the fruit chemicals. And I have to get more information about the gorillas' feeding behavior."

It's not that he hasn't tried. Berry himself tastes everything he sees gorillas eat. Or almost everything. He can report that gorilla preferences cover a diverse range of tastes, from "sweet," "astringent" and "tasteless" to mouth-numbingly "bitter." But with caution that comes from an extensive knowledge of phytochemistry, Berry doesn't graze willy-nilly through the gorilla salad bar. Some of the alkaloid-laden plants that gorillas crave, he notes, are poisonous to humans.

The easy solution would be to bring a mountain gorilla into the Cornell phytochemical lab and serve him lunch, but that's not possible with one of the most endangered mammal species. The so-called Kyagurulu Group of mountain gorillas that Berry studies in the Bwindi National Park is down to just 13 individu-

als, including only one silverback (adult male) after deaths last year. But tests of the *Aframomum* fruit with lowland gorillas in American zoos may be possible, Berry hopes.

The Cornell gorilla-diet study is conducted with assistance from the Institute of Tropical Forest Conservation (ITFC), which oversees gorilla habituation and conservation programs in Bwindi, and from ITFC Director Simon Jennings. Research is conducted with the cooperation of the Uganda National Parks (UNP) and UNP Director Eric Edroma. Berry works from Mbarara University's Ruhija field station, which is directed by Dr. Frederick Kayanja.

Safe from harm, mountain gorillas potentially have a life expectancy nearly equal to humans — 40 to 50 years — and their health is generally good. What role their low-fat, extremely high-fiber diet plays in their health is another question for the phytochemists.

If nothing else, all that fiber makes mountain gorillas fairly easy to find in the impenetrable forest. One might — to be polite to an 800-pound gorilla — say they are, well, especially flatulent.

"Let's just say," Berry notes, "you tend to hear and smell them before you see them."

Experiment Station's successful Empire apple has its 30th birthday

By Linda McCandless

Empire, the most successful apple variety ever released by Cornell's Agricultural Experiment Station in Geneva, N.Y., turned 30 this weekend. Station pomologist Roger D. Way officially introduced Empire to the world on Sept. 15, 1966, after two decades of careful evaluation.

"Empire [a cross between McIntosh and Red Delicious] is arguably the most successful apple variety ever released by the New York State Agricultural Experiment Station," said Ken Silsby, fruit extension specialist with Cornell Cooperative Extension, in an article on "Tree Fruits" in the August issue of *American Agriculturist*.

According to Silsby, Empire has gained a wide acceptance for a number of reasons. It is productive under a wide range of planting systems; it is harvested during the gap between McIntosh and Delicious; it is resistant to preharvest fruit drop and storage scald; it has low susceptibility to fire blight; and it has outstanding fruit quality for both color, firmness and storage.



Brown

"It can take 15 to 20 years for a new introduction to gain wide acceptance among commercial growers and consumers," said Susan K. Brown, director of the Experiment Station's apple breeding program. She released the station's newest apple, Fortune, last January. "Empire is an excellent example of just how worthwhile these introductions can be in the long term," Brown said.

Empire originated from the cross McIntosh x Delicious, made in 1945 from open-pollinated seeds collected by Lester C. Anderson, a Cornell fruit nutritionist who used his own orchards in the Hudson Valley for research. Under the directive of then-Station Director A.J. Heinicke, apple breeders from Geneva went to one of Anderson's orchards in which only McIntosh and Delicious apples grew, harvested 20 bushels, removed

the seeds, ran them through the usual after-ripening, dormancy treatment process, and grew out large populations. In 1947, approximately 1,199 seedlings of N.Y. 45500, as the McIntosh x Delicious was called, were planted at the Experiment Station. From these seedlings, further selections were made in 1954 and observed for 12 years in a second trial planting. Roger Way, who came to work at Geneva in 1949, determined N.Y. 45500-5 was suitable for release, and it was officially introduced to the world at the New York State Fruit Testing Association meetings in Geneva in 1966.

In 1996, New York growers will produce 110 million pounds of Empires, representing an increase of 16 percent from 1995 figures. That is roughly half of the total U.S. Empire crop.

Empire is one of five prominent commercial varieties that have been released by the Agricultural Experiment Station during its 116-year history of service to New York state agriculture. The other four are Cortland, Jonagold, Macoun and Jonamac. In 1996 these varieties will account for roughly one-fifth of all New York apple production.

Emerson Electric CEO to give Hatfield lecture

By Darryl Geddes

Charles F. Knight, chairman and chief executive officer of Emerson Electric Co., will deliver the Hatfield Address on "American Industry Approaching the Millennium" Sept. 26 at 4:30 p.m. in Schwartz Auditorium of Rockefeller Hall.

President Hunter Rawlings will introduce Knight. The lecture is free and open to the public.

Knight is the 1996 Robert S. Hatfield Fellow in Economic Education, the highest honor Cornell bestows on outstanding individuals from the corporate sector. He is a Cornell alumnus, earning a bachelor's degree in mechanical engineering in 1958 and an MBA in 1959. He also was a member of the Cornell football team.



Knight

In 1973 Knight was elected chief executive officer of Emerson, making him at the time the youngest CEO of any billion-dollar U.S. corporation. During Knight's more than two decades of leadership, Emerson's sales have increased approximately tenfold, to \$10 billion in fiscal 1995, and net earnings have likewise increased by a factor of 10, from \$86.7 million in 1974 to \$907.7 million last year.

Emerson's history of yearly increases has come from sales of industrial products like air-conditioning and refrigerator compressors, process controls and power tools. To keep Emerson's sales and earnings increasing, in the last year Emerson has invested more than \$350 million on new product development. The push in new product development is part of Emerson's change from cost-reduction to growth mode, which came after forecasters concluded that continual gains from cost-cutting at Emerson would be marginal.

Significant cost-cutting came about in the 1980s, when it became apparent that foreign labor rates could produce appliance components and other products at much lower cost than Emerson. The company closed 30 high-cost plants, shifted production to cheaper locales and left the defense and construction businesses.

Knight's management and leadership abilities have been saluted by major business magazines: *Industry Week* ranked Knight as one of America's best chief executive officers in its biennial survey ('87, '89, '93), and a *Fortune* survey of Fortune 500 executives scored Knight as one of the 10 most effective business leaders in the United States.

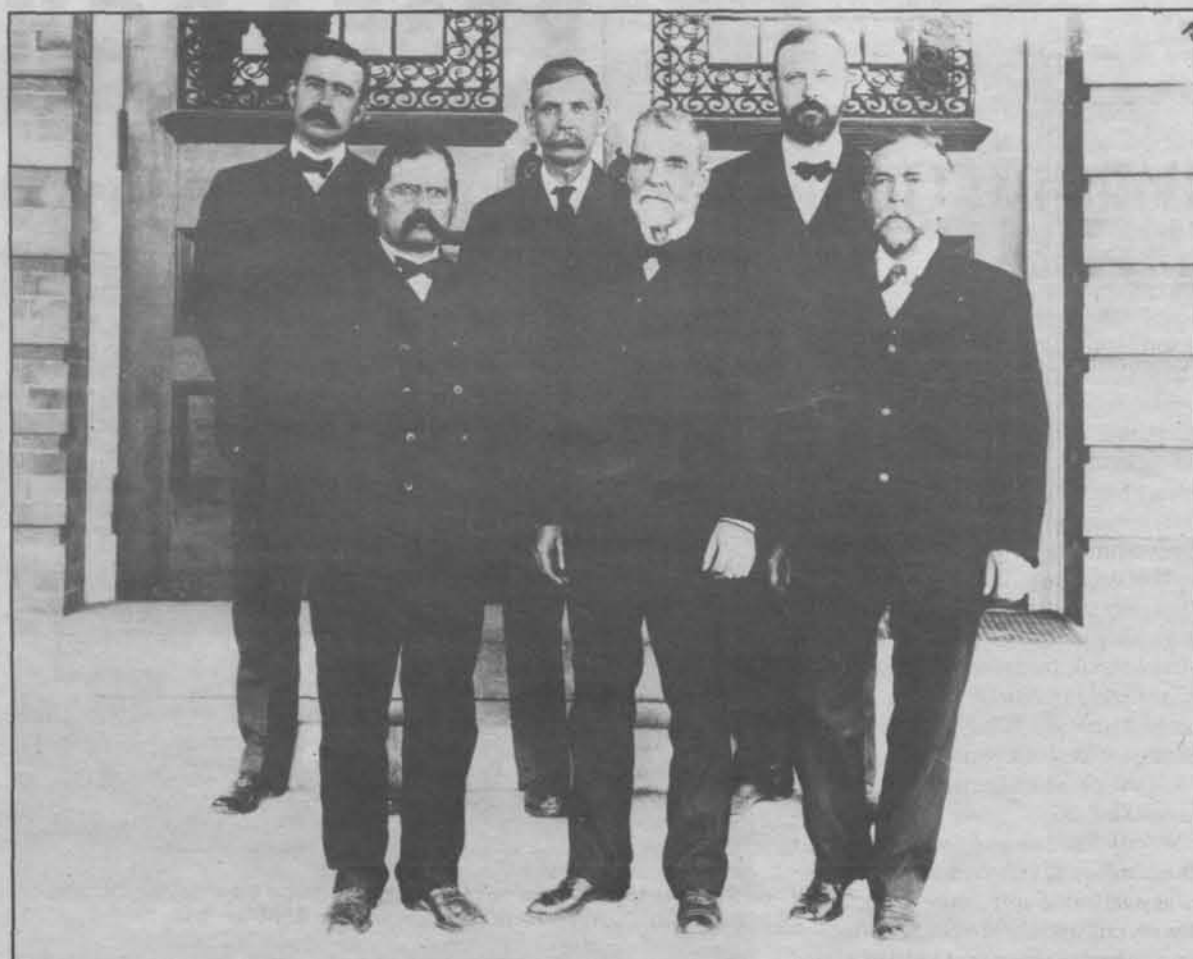
In between his corporate responsibilities at Emerson and his board membership for Anheuser-Busch and IBM, among others, Knight maintains an active civic calendar, supporting organizations in Emerson's corporate home of St. Louis.

The Hatfield Fund for Economic Education was established by the Continental Group Foundation to honor former Continental Chairman Robert S. Hatfield. The fund supports campus visits by distinguished business leaders, who deliver major addresses on economic issues of national importance. They are intended to serve as major platforms for the exchange of ideas between the corporate and academic communities.

Hatfield Fellows since the program's inception in 1981 have included Hatfield and CEOs of such companies as AlliedSignal, Corning, Procter & Gamble, GE, General Motors, DuPont, IBM, Kodak and Ford.

Prior to his Hatfield lecture, Knight will meet with students, faculty and staff. Emerson endowed a professorship in manufacturing management, held by Richard Conway, and funded the development of the Emerson Manufacturing Teaching Laboratory in the College of Engineering.

Multiplication at the Vet College



Division of Rare and Manuscript Collections, Cornell University Library



Barry Delibero/University Photography

Although the College of Veterinary Medicine was chartered in 1894, it didn't open its doors to its first class (of 11 students) until Sept. 21, 1896. To mark the "true centennial," college faculty members assembled earlier this month for a group photograph. Their number represents a more than sixfold increase over the original faculty, shown at top. That 1896 group was, from left, Grant S. Hopkins, William L. Williams, Veranus A. Moore, James Law, Pierre A. Fish and Simon H. Gage. In his inaugural address, Law, the college's first director, said: "As trusted representatives of science, it is expected of us that we fortify ourselves with the lore of the past and strike out with clear vision, steady foot and strong hand for future achievement."

Brooklyn trees *continued from page 1*

burgh, which verified the species on Sept. 10. Hoebeke also sent some of the Cornell samples to the Bishop Museum in Honolulu, which has one of the world's largest collection of Asian beetles - the J. Lensley Gressitt collection. Their confirmation was made on Sept. 13. Federal agriculture officials are assembling a team to decide how to prevent further infestation.

Three-quarter inch, circular holes in the Brooklyn trees led authorities to think pranksters were drilling them. But, instead, it was adult beetles emerging from the heartwood center of the trees boring exit holes through the outer bark. After beetle emergence, mating occurs, and eggs are laid in cavities in the bark, chewed out by females and covered with a cement secretion. Eggs hatch, and young larvae bore into the inner bark, feed for a while and upon growing larger, bore into the tree's heartwood and pupate in the spring. The adult beetle then chews its way out,

thus leaving the hole.

Larval feeding could hurt a tree's vascular system in an area where trees are under enormous pressure to grow, said Nina Bassuk, Cornell professor of floriculture and ornamental horticulture. "These trees are generally growing in places not made for trees, since there are sidewalks, houses, cement. The tree-lawns in Brooklyn are only 5 or 6 feet wide," Bassuk said. "The roots have little chance for water, and the roots tend to be restricted. These insects might weaken the trees structurally."

Bassuk took a survey of Brooklyn trees in 1990. She found that 27 percent of the 110,000 street trees in Brooklyn are Norway maples - one of the trees this new beetle attacks most often.

"I think this could be devastating for the city," Bassuk said. "After all, the Norway maple is the most widely planted shade tree in New York state."

Profs honored by food technologists

Two Cornell professors have been honored by the Institute of Food Technologists. Joe M. Regenstein, Cornell professor of food science, was named the institute's first Congressional Science Fellow, and Chang Yong "Cy" Lee, Cornell professor of food chemistry at the Agricultural Experiment Station in Geneva, N.Y., has been elected an institute fellow.

Twelve new fellows were named by IFT this year to join a distinguished group of 207, selected from the organization's membership of 28,000.

Lee's research efforts in general food chemistry relate to the processing of fruits and vegetables. For example, he helped determine the best New York apple varieties for minimal processing, developed the use of honey as an anti-browning agent in fruit juices and wines, and conducted a preliminary investigation into the phytochemicals of onions.

IFT made Lee a fellow for his academic



Regenstein



Lee

and professional accomplishments. He has authored more than 130 scientific papers and several book chapters and has edited two books, including the recently released *Enzymatic Browning and Its Prevention*.

As a Congressional Science Fellow, Regenstein will work for one year in Washington with a member of Congress or on a congressional committee, advising on a range of scientific issues as they pertain to public policy. Regenstein will be the institute's first Congressional Science Fellow.

SOUNDBITES

Here is a sampling of quotations from Cornell faculty and staff that have appeared recently in the national news media:

"But on the Palestinian front, time is of the essence: More Israeli settlements on the West Bank would make effective Palestinian independence more difficult, if not impossible, and more than 2 million Palestinians continue to endure hardship there — at the same time that Israelis remain targets of terrorism. This status quo is untenable, and even if Arafat can survive it, the eruption of violence remains a possibility. The sooner this lesson is relearned, the better.

— **Shibley Telhami**, director of the Near Eastern Studies Program and associate professor of government, in a *Los Angeles Times* op-ed on Aug. 12.

"Despite what you read about we're falling behind, the bottom line is that the U.S. has the highest productivity in the world."

— **Joseph Thomas**, the Nicholas H. Noyes Professor of Manufacturing, Johnson Graduate School of Management, quoted by Reuters on Aug. 26.

"They both raise the pulse and lower it, they calm as well as excite, they are the occasion for reverie and a tool of concentration, they are superficial and profound, soldier and Gypsy, hateful and delicious. Cigarettes are a cruel, beautiful mistress; they are also a loyal companion."

— **Richard Klein**, professor of French and Romance studies, in *Cigarettes Are Sublime*, quoted in the *Washington Post* on Aug. 27.

"What we have is a labor movement that's more visible and active and aggressively trying to do some things, both in the political arena and in organizing."

— **Richard Hurd**, director of labor studies at ILR, quoted by Reuters on Sept. 1.

"This legislation isn't really health reform. It isn't even health-insurance reform. It's really nothing more than a form of unemployment insurance that will help some people who are between jobs."

— **Suzy Szasz**, librarian, on the Health Insurance Portability and Accountability Act in a *New York Times* op-ed on Sept. 1.

"Adolescents reflect what's going on in the larger society. Kids are lagging behind because teachers and parents are lagging behind. Adults talk equality but they aren't giving it everyday expression."

— **James Garbarino**, director of the Family Life Development Center, quoted by Reuters on Sept. 6.



Adriana Rovers/University Photography

David G. Post, co-director of the Cyberspace Law Institute, second from right, meets with students from the *Cornell Daily Sun* and the *Cornell Law Review* in the Statler Hotel on Sept. 16 before his Bailey Hall lecture.

Cyberlaw expert argues for a new 'Internet federalism'

By Linda Grace-Kobas

Calling the recent federal court decision striking down the Communications Decency Act a "Scopes trial for the electronic age," a Georgetown University cyberlaw expert urged Monday the creation of a new "Internet federalism" in which users form virtual communities that adopt their own rules of behavior.

David G. Post, co-founder and co-director of the Cyberspace Law Institute and visiting associate professor of law at Georgetown University, made his remarks in this year's Daniel W. Kops Freedom of the Press Fellowship Program, held in a crowded Goldwin Smith Auditorium. The program was established in 1990 by Daniel W. Kops '39, former editor of the *Cornell Daily Sun*, and hosted by the College of Arts and Sciences in cooperation with the American Studies Program.

Since the Internet exists nowhere and everywhere, Post argued, the laws of individual countries not only do not apply to users, who can be physically located anywhere in the world, they cannot apply, since users can easily avoid one country's legal system by moving to another server within

a different country's borders.

The current state of laws governing the Internet is "international chaos," Post said, adding that this is not a bad state of affairs.

The Internet calls for a far more radical rethinking of our basic rules of law and governance than even the federal court in Philadelphia expressed in striking down the Communications Decency Act, Post said, noting that world governments may be in the "twilight of sovereignty" now that the exchange of information can take place in a virtual realm where traditional legal systems are powerless.

A new governance model for cyberspace is within our reach, Post said, citing another recent case in the federal court of Philadelphia as one that has broad implications for how law and order will develop in cyberspace. A commercial entity named Cyber Promotions Inc. filed suit against America Online after AOL, in response to subscribers' complaints, set up a filter to keep Cyber Promotions' e-mail ads out of the AOL network. The federal court has issued a temporary order telling AOL to remove its blockage of Cyber Promotions' e-mail, a decision Post termed "stunningly wrong-headed."

"What AOL has done is precisely what Internet governance requires," Post said: It established rules of behavior based on the desires of its network membership. People who think it's a good rule can stay with the group; those who don't like it can subscribe to another Internet gateway. AOL's power to make rules is limited, since membership will shrink as restrictions become unpopular.

"Our mobility is a powerful guarantee that rules are just," Post said.

Post admitted that not all problems will be solved through his new model of Internet governance.

"The law of the Internet is the aggregate of choices made by individuals," he said, predicting the emergence of many network confederations, each with its own set of rules enforced by electronic fences between confederations.

"This decentralized mode of lawmaking has at its heart the sovereignty of the individual, which is the most solid basis for creating laws," Post said. "We don't need a new law of free speech. We need the freedom to make the law. We can build this idealized world, if we have the wisdom and fortitude to do so."

Big Red fall sports teams ready for another successful season

By Andrew D. Moore '97

One year ago, Cornell's fall sports teams won an outstanding 65 percent of their games, including wins in 76 percent of their Ivy League contests — and this year's teams don't appear to be letting up. With a number of experienced letter winners combined with a wealth of freshman talent, all of the Big Red squads are looking to better last year's marks.

Here's how each team shapes up:

Four of last season's top five runners return to coach Lou Duesing's men's cross country team, led by senior captain Jeff Nason and classmates John Steed and Larry Gosse, the squad's top finisher at the Heptagonals. Juniors Dan Sherry and Zach Woodmansee and sophomores Josh Novak and Jim Wolfe will also contribute to a squad that finished seventh at last year's Heps.

Senior captain Kate Walker will be a key part of the success of Duesing's women's harriers this fall after finishing fifth at last year's Heps. Joining her will be classmates Becky Dennison and Megan Kilbride and



Tim McKinney

All-American soccer player Eric Kusseluk (in white) pushes the action against Harvard last year.

sophomores Miranda Kaye, Clair Ryan and Heather Haupt. Junior Laura Audette will



Tim McKinney

Cari Hills, first-team All-Ivy a year ago, gives strong offensive support for the field hockey team.

also contribute.

Coach Shelby Bowman's field hockey

team looks to build on last season's ECAC appearance with 11 returning letter winners. Junior Cari Hills and sophomore Emily Robb scored 13 goals apiece last fall and will provide much of the offense, while senior co-captain Heather McCormick leads an experienced midfield. Classmate and co-captain Molly Kauffman will start in goal after allowing 1.82 goals per game and compiling an .852 save percentage last season.

Senior running back Chad Levitt, who gained 1,428 yards as a junior and led the Ivy League with 142.8 rushing yards per game, leads coach Jim Hofher's varsity football team, a squad that was on the brink of an Ivy League championship last fall. Juniors Scott Carroll and Brian Opre will compete for the chance to start at quarterback, where the mission will be to get the ball to an experienced group of receivers led by senior captain Steve Busch and junior Eric Krawczyk.

Seven starters return on defense led by senior defensive tackle and captain Seth Payne, who had four sacks last year. Junior

Continued on page 8

Whyte honored with ASA award

William Foote Whyte, the Cornell sociologist who authored an early examination on street-gangs culture, has received a newly established award from the American Sociological Association (ASA) for his "significant contribution to the practice of sociology."



Whyte

The award is a double honor for the Cornell professor emeritus, as it will bear his name and be known as the William Foote Whyte Award.

Whyte was honored at a meeting of the ASA in New York City last month. The award was presented by the Sociological Practice Section of the ASA.

Whyte, 82, a professor emeritus in the Cornell School of Industrial and Labor Relations, is the author of numerous works, but he is best known for his book *Street Corner Society*, which was first published in 1943. Dismissed then as "another good slum study," the book was being hailed as a "sociologic classic" by the 1960s, as respect for Whyte's research methodology — field work — grew.

His autobiography, *Participant Observer*, was published in 1994 by ILR Press. Whyte taught at Cornell from 1948 to 1980.

Dean chat



John Muckey

More than 200 students, faculty and staff from the College of Human Ecology attended the fourth annual Welcome Back Barbecue in the Martha Van Rensselaer courtyard on Sept. 12. The afternoon gathering, which featured food and a DJ, was hosted by Dean Francille Firebaugh. The dean is shown speaking to freshmen Kenisha Campbell, left, and Teisha Cuthbert, center.

CU's network services have gotten a boost from computer upgrades

By Daisy Dailey and Leslie Intemann

Use of network services like electronic mail, Just the Facts, Employee Essentials and the Cornell Library Catalog is constantly growing on the Cornell campus. Some 36,000 people with network identities (NetIDs) use Cornell network services on a regular basis. To keep up with the demand for services, Cornell Information Technologies (CIT) has upgraded the computers that provide e-mail and directory services. The mainframe computer that supports the Library Catalog and information access services, such as Just the Facts and Employee Essentials, also was upgraded.

In the summer of 1996, CIT installed two new larger-capacity e-mail servers to replace five older servers. During the 1995-96 fiscal year, CIT e-mail servers handled approximately twice as many messages as they had the year before. By the end of the spring 1996 semester, 24,000 people were using CIT's e-mail service; that number does not include this fall's new students.

In another effort to increase capacity and improve performance, CIT replaced the Cornell.edu server. This machine is the storage site for Cornell's e-mail directory with its current load of 36,000 Net ID entries; it is also a major e-mail routing machine for incoming mail. Cornell.edu is heavily accessed by people at Cornell and all over the Internet trying to find friends and associates at Cornell.

"By replacing these servers with the latest technology, CIT is attempting to provide efficient service now and to plan for the future as well. For the last four years, we have been upgrading existing servers and adding more servers as needed. With new technology, we can reduce the number of servers and still increase the capacity," says Barbara Skoblick

Here are some usage statistics

For academic year 1995-96:

- Cornell e-mail servers handled approximately 170 million messages.
- Just the Facts was accessed approximately 1,032,000 times.
- Employee Essentials was accessed approximately 39,000 times.
- Cornell Library Catalog was accessed approximately 282,000 times.

All of these numbers are expected to increase during the 1996-97 academic year.

of the Office of Information Technology (OIT).

Since 1991, information technology at Cornell has been shifting away from time-shared mainframe computing (where everyone logged on to a big central computer) and toward a client/server-based system. CIT's e-mail service has been client/server-based since 1992. As part of Project 2000, Cornell's goal is to move applications that are critical to the running of the university into the more flexible client/server style of computing within the next five years.

Client/server systems use software running on desktop computers (clients) to access information stored on computers located somewhere on a network (servers), effectively sharing the workload between the client and a server. For example, you read and compose e-mail on your desktop machine, then send that mail to a post office server to be delivered. This is possible in part because desktop comput-

ers are much more powerful than they used to be and can thus share the workload.

Because the change from mainframe to client/server technology is gradual, Cornell's mainframe computer (CornellC) will continue to play a significant role in campus computing. Popular services like Just the Facts and Employee Essentials rely on the mainframe to provide access to information stored in administrative databases. Use of those services, as well as use of the Cornell Library Catalog, has been increasing steadily. In addition, CornellC currently houses core administrative systems including Human Resources, Student systems, Payroll, Purchasing and Facilities. CornellC was upgraded to a smaller and faster machine in December of 1995.

"Cornell will need CornellC for at least five more years," says Jim Doolittle, CIT's associate director of Network and Computer Systems Operations Support, "until all of the PeopleSoft systems [for Project 2000] are installed and all of the university's core systems and information access systems are moved to client/server computing. . . . With this mainframe upgrade, we are pleased that we can continue our high level of service to administrative system users."

Dave Lambert, vice president of Information Technologies, recognizes the importance of keeping up with the growth in use of technology in all areas — newer services like e-mail and information access, as well as traditional mainframe-based administrative systems. Speaking of the computer and network infrastructure at Cornell, Lambert says, "What was once considered an asset for a small number of technical people is now crucial to everyone. CIT has redoubled its dedication to making sure that systems we provide — to support both exploding new applications and growing traditional applications — are reliable and available."

Fall athletics *continued from page 7*

Dave Ahouse and sophomore John Hanson, who was second on the team with 74 solo tackles and 27 assists, return at linebacker, while junior Chris Allen has earned the start at free safety in a secondary that has three starters returning, including junior Justin Bird and sophomore Tom Nunes.

Coach Dick Costello's golf team has five lettermen returning, including senior Chris Simms, who qualified for last fall's ECAC championship. Classmates Adam Simon and Dave Zinkand and juniors Keith Brennan and John Totolis also will see plenty of action.

Although 34 lettermen return to the lightweight football team, coach Terry Cullen needs to fill holes at quarterback and running back. Competing for signal caller are junior Tim Hedges, a converted tight end, and sophomore Craig Ginsberg. All-ELFL

senior wideout Nolan Hecht, who led last year's squad with 415 yards, leads the receivers, while classmate Michael Matays is the most experienced running back. First-team All-ELFL senior center Kurt Sommerhoff bolsters the offensive line, while two-time All-ELFL senior linebacker Brian West heads the defense.

Coach Dave Sarachan has high hopes for the men's soccer team, despite the loss of five starters to graduation. Coming off an NCAA appearance last fall, the squad brings back 14 lettermen led by senior co-captain Eric Kusseluk, who earned first-team All-Ivy honors for his 18 goal output last season. Senior Rob Elliott, who had eight goals and 10 assists last year, and co-captain Marc Thorne lead the midfielders, while seniors Donny Megliola and Adam Schoner provide leadership at defense. Junior Dave

Wolfe and senior Hemant Sharma will compete to start in goal.

Despite the loss of all-time leading scorer Lori Penny to graduation, coach Randy May's women's soccer team looks strong led by first-team All-Ivy senior goalie Marybeth Bell, who compiled a .97 goals against average and an .878 save percentage last year, while posting seven shutouts. Senior co-captain Karyn Anderer and first-team All-Ivy classmate Jen Daly will lead the backfield, while first-team All-Ivy senior co-captain Becky D'Aleo heads the midfielders. Sophomore Genna Terranova heads the forwards after a five goal, three assist output last year.

Senior Tom Brownlie will make the move to No. 1 for coach Barry Schoonmaker's tennis team. Classmates Brian Kintz and Hans Nichols add experience to the lineup,

while sophomores Josh Benjamin and Peter Stahl will see plenty of action.

New women's tennis coach Katherine Bernard needs to find replacements for the holes left by the graduation of last year's No. 1 and No. 3 singles players. Senior Mo Bertsch probably will play at No. 1 after posting a 16-6 record at No. 2 during the spring. Other top returners include sophomores Rebecca Cannom and Michelle Degen, along with junior Kelly Molloy.

Coach Sue Medley's volleyball team shapes up well despite the loss of three starters to graduation. Six letter winners return, led by second-team All-Ivy junior middle blocker Carol DeZwarte, who led the Ivy League with 1.23 blocks per game last fall. Senior co-captain Stacey Champion, who had 211 digs and 36 service aces last year, also will provide leadership.

Glee Club is in tune with new conductor's musical direction

By Darryl Geddes

After 38 years under the baton of legendary Cornell music Professor Thomas Sokol, the Cornell Glee Club is learning to sing a different tune. One may not hear the difference today, but in due time the all-male chorus will sing notes it hasn't sung before.

"I think some students were really fearful that anything I did that was a variance would threaten 126 years of tradition and history," said Scott Tucker, assistant professor of music, who took over as conductor of the Glee Club, Chorus and Chorale last year. "I think the anxiety has subsided and many are supportive of what I want to do."

The Glee Club opens in 1996-97 season Saturday, Sept. 21, at 8:15 p.m. with a performance in Sage Chapel.

Even as the Cornell Glee Club enters a new era of leadership, it remains one of the most hallowed and respected organizations on the Cornell campus, largely because it is one of the oldest collegiate singing groups in the country, having debuted in 1868. Reverence for the Glee Club also is linked to its gloried history and tradition.

The late Cornell President Deane Malott called the Glee Club "one of Cornell's prime ambassadors to the world" on the occasion of the group's 1960 tour of the Soviet Union. The club has toured Asia and Europe, performed before a future President and international royalty, recorded a national anthem, appeared on national television and earned the praise of maestro Eugene Ormandy. Its legendary tour stories are snapshots of Americana, such as sleeping in Pullman cars on a cross-country tour. Keeping this heritage alive are some 1,700 Glee Club alumni, whose staunch support for the singing group has helped it amass one of the largest endowments of any student organization.

But the thought that what had gone before would be sacrificed for the future did cross minds after the retirement of Sokol, who guided the Glee Club from 1957 to 1994.

"Many members were anxious about Professor Sokol's departure," said Glee Club president Eric Saidel '97. "We didn't know what to expect. There were questions and concerns from alumni and others who had such a fond attachment to the Sokol era."

How drastically would the Glee Club change its repertoire? Would international tour dates be as plentiful? Would the new conductor favor a particular sound or vocal style over another? Would the Glee Club still fill Sage Chapel? What would the new conductor's style be like?

"The anxiety that presents itself in these instances is predictable," Sokol said. "But change is good and indeed necessary. It is the task of the conductor and music director to help shape the students' vision into his vision; when that happens, it's very exciting artistically."

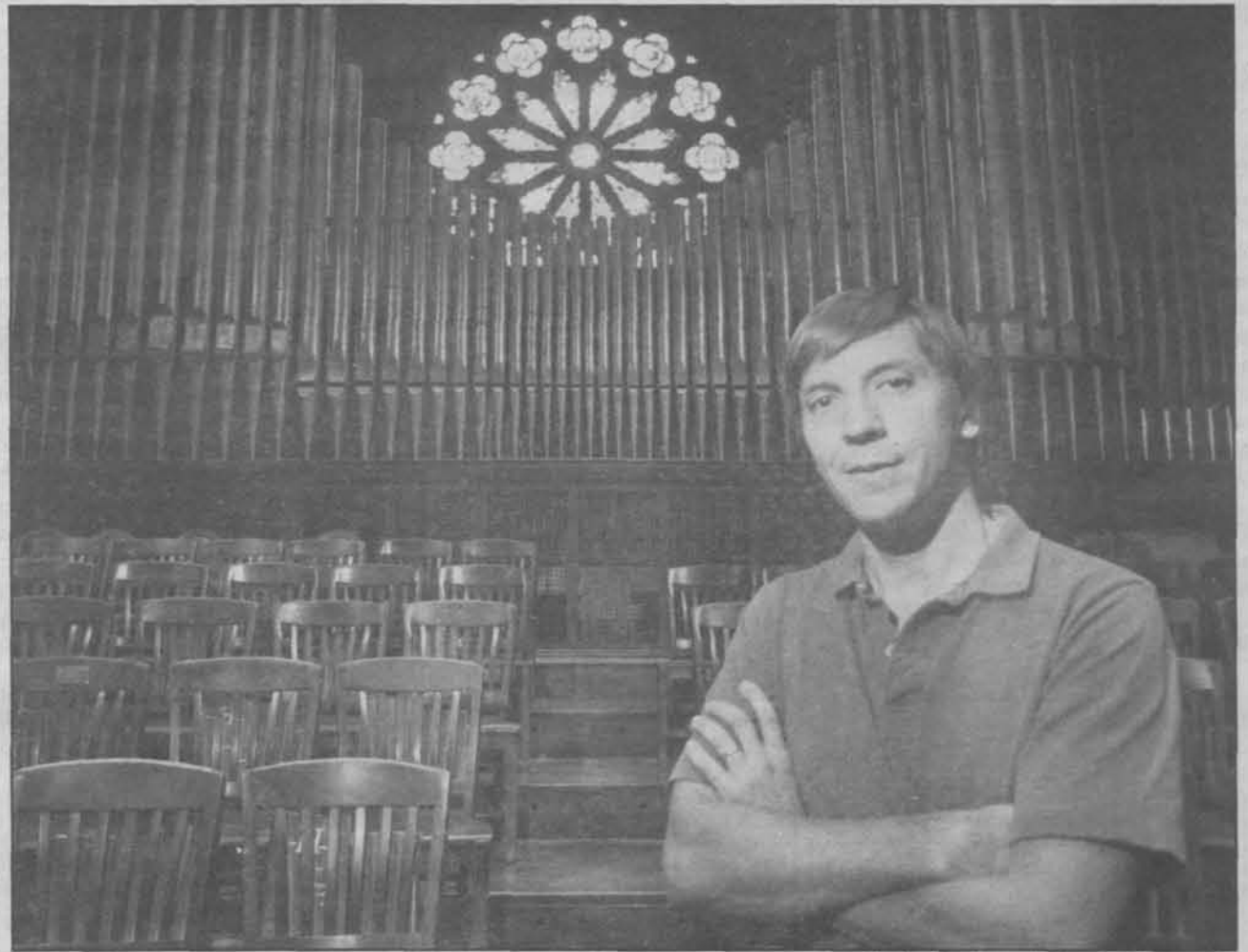
And from all accounts, things are changing.

Under Sokol, the Glee Club was noted for its big, masculine sound, which skillfully portrayed the power of the all-male chorus. Tucker wants the ensemble to develop a new sound that will highlight the smaller, subtler and lighter aspects of the male voice. "I am moved by an intimate and well-balanced sound," he said. "I may sacrifice some of the volume for blending."

The new conductor, whose résumé includes chorale-conducting jobs at Milton Academy and Harvard University, will complement this new sound with a new repertoire. Tucker will look beyond choral music of Brahms, Schubert and Mendelssohn and others to composers and cultures not ordinarily found on performance programs.

"We will examine the choral music from African and Latin America countries, for example," he said. Tucker already has scheduled a joint Glee Club and Chorus (the all-women's vocal ensemble) performance, featuring Ugandan singer Samite for Feb. 9, 1997. The concert, to benefit AIDSWork, will feature the singing of traditional Ugandan folk songs.

Along with a change in substance, comes a change of style. Where Sokol was the kindly gentleman conductor who extracted excellence from his ensemble with a regal toughness, Tucker challenges his young charges to do better



Charles Harrington/University Photography

Scott Tucker, assistant professor of music and conductor of the Glee Club, poses in Sage Chapel, site of Glee Club practices.

with a candid frankness befitting a big brother. "I'm very opinionated when it comes to music and what it should sound like," he said. "I'll say what's on my mind and tell them that what I just heard was an ugly sound. I'm not sure Tom Sokol would be as direct. I think that's been an adjustment for students."

Indeed it has, notes Saidel. But with a class of new men joining the ranks—those who have no firsthand knowledge of the Sokol era—the dramatic change in substance and style is being well received. "We're very excited about what Scott is bringing to the Glee Club with his new plans and new opportunities," Saidel said. "There's a new kind of excitement and energy in the group."

Part of the new energy comes in the form of the new singers who joined the Glee Club this semester. Jon Ivers, an 18-year-old freshman from Dryden, N.Y., was one of only 19 out of the 70 students who auditioned to make the ensemble. "I really wanted to sing in a group, and this is one of the best groups on campus," said Ivers, who like others in the club has a history of performing choral music with various singing groups. "I'm delighted to become a member."

The rigorous audition requires students to sing "My Country 'Tis of Thee," a cappella, without accompaniment, sight-read and sing notes played on the piano. Even the best voices can sound off-key and awkward on this test. The final cut comes after the men sing in a quartet with current Glee Club members. "This allows me to see how they sing in a group, how expressive they are in the context of an ensemble, whether they sing in balance with the other members, and how well they match vowels," Tucker said. "It's the most important test of the audition."

Glee Club members must make time for at least four hours of rehearsal each week, and more during a performance week. The time commitment to the group can be overwhelming for some, said Saidel, especially for newcomers who are still green when it comes to juggling 19 credits and extracurricular activities.

Tardiness and absences can end a singing career. Points or demerits, meted out by the executive board, are given to students for being late and being absent from rehearsals.

"There is a lot to gain from the Glee Club," said Saidel, a senior who's been a member since freshman year. "You develop a degree of confidence in yourself, not only as a vocalist, but also as a student. You develop lasting friendships that carry with you throughout your college experience and beyond."

Former second tenor John Hedlund '91, who now works for the Department of Alumni Affairs and Development, said the close camaraderie between alumni and current members arises from the group's focus. "Singing is one of the most participatory things one can do," he said. "It's very easy to come back for Homecoming and sing Cornell fight songs and the alma mater and feel like a member of the group again."

Glee Club alumni show their allegiance in many ways, by attending concerts around the country and by giving generously during Glee Club fund-raisers.

"We solicit alumni twice a year, and they are all so supportive," Saidel said, "especially when seeking support for our international tours."

Performing overseas is a longstanding tradition of the Glee Club, which has visited China, the Soviet Union, Eastern Europe, Germany, England, Sri Lanka, Japan, the Philippines and other countries. The annals of Glee Club lore include stories of alumni who have met their future spouses while abroad and others who have returned overseas to find employment.

Tucker believes that while interest in choral music will wax and wane, it can be assured to fill concert halls—or Sage Chapel—so long as it remains of the highest quality. "That's what will keep people coming back to hear. That's what will make some people discover it for the first time."

"My goal is for the Glee Club, in six or seven years, to be so good that when we are rehearsing in the chapel, people stop and come in because they want to listen," Tucker said.

Study: Executive job-seeking is rising with stress level and workload

By Darryl Geddes

More than one-third (35 percent) of executives are dissatisfied with their current positions, and nearly 30 percent say they will leave their current jobs as soon as they find a better one, reports a study by Cornell and Paul Ray Berndtson, an international executive recruiting firm.

According to the study, 69 percent of executives polled reported sending résumés to prospective employers (compared with 58 percent in 1993) and 64 percent said they have gone on a job interview in the past year (compared with 53 percent in 1993). The survey also shows that executives are being actively courted. On average, each was contacted 6.3 times during the year about job opportunities.

At the same time, the average executive made contact with 29 organizations about possible job opportunities.

"The biggest predictor of whether executives will search for a new job or leave their current one is job satisfaction," said study co-author John Boudreau, associate professor in the Center for Advanced Human Resource Studies (CAHRS) at Cornell's School of Industrial and Labor Relations. "The less satisfied one is with his or her work, the more likely he or she is actively searching for new employment."

Boudreau said the study indicated that many executives are dissatisfied with their jobs because of increased stress linked to job insecurity and workload.

"Many executives feel that the current business environment is not good for the

company and that prospects for their future growth and that of the company's is not good," he said. "Whether it's layoffs or the rapid pace of change in the corporate structure—like removing various management layers and functions—we tend to see more and more people becoming less and less secure about their jobs."

Layoffs and downsizing may be leading to an increase in workload for executives, which the study cites as another indicator of increased stress and job dissatisfaction. The study notes that executives spend an average of 57 hours at work each week and are away from home on business five nights a month.

The survey was conducted among 1,885 respondents who hold executive positions with U.S. companies. The average respon-

dents were 47 years old, married with one child, age 13, at home. They had worked for their current employers an average of six years and had been in their current positions for three years.

CAHRS is the leading research partnership in human resource management, bringing together top executives from over 50 worldwide companies with leading scholars to investigate key issues in enhancing how people work in organizations.

Paul Ray Berndtson, a major international executive recruiting firm, serves clients around the world through a network of 36 offices in North and South America, Europe and the Pacific Rim. Ranked sixth in size among executive search firms in the United States, Paul Ray Berndtson is one of the 10 largest recruiters worldwide.

Highlights from A.D. White's collections on display in Kroch Library

By Jill Goetz

While Andrew Dickson White's role in helping to found Cornell has been rightfully celebrated, his prowess as a book collector has gotten short shrift, say Mark G. Dimunation, Cornell's curator of rare books, and Elaine D. Engst, university archivist.

That may be because, over four decades, White's acquisitiveness was decidedly utilitarian: he was more interested in procuring items that would shed light on major historical events than in acquiring items for their aesthetic or monetary value.

"Part of what was unusual about White's collection is that he was collecting popular culture," Engst said. "So you have everyday items, as well as the really high-end items."

Now through Sept. 28, members of the Cornell and greater Ithaca communities can view many of these artifacts — including Medieval illuminated manuscripts and Matthew Hopkins' 1647 text *The Discovery of Witches* — in "A Legacy of Ideas: Andrew



An anti-slavery poster from the collection.

Dickson White and the Founding of the Cornell University Library" in the Carl A. Kroch Library Gallery. The exhibit is open

Monday through Friday from 8 a.m. to 5 p.m. and Saturday from 1 to 5 p.m.

White, Cornell's first president, began acquiring books cautiously on a "Grand Tour" of Europe after graduating from Yale University. His appetite whetted, he soon went on a buying binge, writing to his mother that she was about to witness "an avalanche of the most splendid books ever seen in Syracuse."

Later, when he was appointed professor of history and English literature at the University of Michigan, White made ample use of the original sources he had acquired: for example, he drew his lectures on the French Revolution from full sets of the period's leading newspapers and more than 7,000 Revolutionary pamphlets, speeches and portraits.

"White was a savvy book buyer," Dimunation said. "His French Revolution collection documented the moments of the period that affected the everyday citizen. This emphasis on the social history of the Revolution lends great importance to the

collection today. It has, since White's day, grown to be the largest French Revolution collection outside of Paris."

In 1864 White became the youngest member of the New York State Senate, where he met Ezra Cornell, chair of the Agriculture Committee. Cornell proposed a bill to endow a public library in Ithaca before the Education Committee, which White chaired — and the seeds were sown for a great university and a great university library. White donated his entire library to Cornell in 1891.

But his collecting didn't stop there. In Munich, Germany, he obtained rare works relating to theology's bearing on civilization; in Salt Lake City, a collection of Mormon literature. After retiring from active public life in 1903, White could remark, "Cornell University has now, within forty years from its foundation, accumulated very nearly three hundred thousand volumes — many of them of far greater value than anything contained in the Yale library of my day."

CALENDAR

from page 12

nsf96122.bdx. Additional instructions are available in the graduate field offices.

Hughes fellowships: A limited number of paper applications for Howard Hughes Medical Institute Predoctoral Fellowships in the Biological Sciences will be available in late September in the Graduate Fellowships Office. Applications will be available on the internet at <<http://fellowships.nas.edu>>. Award is \$15,000 stipend plus \$15,000 cost of education allowance; Cornell provides remainder of tuition. Deadline is Nov. 15.

Minority fellowships: Applications for Ford Foundation Predoctoral Fellowships for Minorities will be available in mid- to late-September. Deadline is Nov. 4.

lectures

Africana Studies & Research Center

"My Community: The Color of Our Struggles," Marcia Fort, Greater Ithaca Activities Center, Sept. 25, noon, Hoyt Fuller Room, 310 Triphammer Road.

Chemistry

Roessler Lecture: "Suboxides and Subnitrides in Groups I and II — Metals With Atomic-sized Bubbles and Tunnels," Arndt Simon, Max-Planck-Institut für Festkörperforschung, Stuttgart, Germany, Sept. 19, 11:15 a.m., 119 Baker Lab.

English

"A Magazine Fiction Editor Looks at His Trade," C. Michael Curtis, senior editor, *The Atlantic Monthly*, Sept. 26, 4 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

Floriculture & Ornamental Horticulture

"What is CEA?" Robert Langhans, floriculture, Sept. 26, 12:20 p.m., 37 Plant Science Building.

Hatfield Fellow in Economic Education

"American Industry Approaching the Millennium," Charles Knight, chairman, president and chief executive officer, Emerson Electric Co., Sept. 26, 4:30 p.m., Schwartz Auditorium, Rockefeller Hall.

Plantations

"Greening the Concrete Jungle," Judith Zuk, president and chief executive officer, Brooklyn Botanic Garden, Sept. 20, 7:30 p.m., Call Alumni Auditorium, Kennedy Hall.

A.D. White Professors-at-Large

"Memory and Psychoanalysis," Juliet Mitchell, Sept. 19, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

"Thou Shalt Not Commit Adultery . . . ?" Juliet Mitchell, Sept. 23, 4:30 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall.

"Family Values: The Child Support Act in Britain," Juliet Mitchell will lead this Women's Studies Program brown-bag seminar, Sept. 26, noon, A.D. White House.

Southeast Asia Program

"Characteristics and Growth of the Informal Sector in Indonesia, 1980-1990," Robert Rice, Monash University, Australia, Sept. 19, 12:15 p.m.,

Kahin Center, 640 Stewart Ave.

"Economic Revival in the Sultanate of Banten (West Java) in the Second Half of the 19th Century: Facts and Reasons," Claude Guillot, Centre National de la Recherche Scientifique, Paris, Sept. 26, 12:15 p.m., Kahin Center, 640 Stewart Ave.

music



Jon Reis/PHOTOLINK

Edward Murray, left, and David Borden will perform Sept. 21 in Barnes Hall.

Department of Music

Sept. 21, 8:15 p.m., Barnes Hall: David Borden, a composer and director of Cornell's digital music program, and Edward Murray, director of the Cornell Symphony Orchestra, combine their complementary styles of jazz piano playing in a program titled "As Time Goes By," which contains tunes from different eras that have to do with time passing. Duets will include Dave Brubeck's "Take Five," Count Basie's "One O'Clock Jump" and Mercer Ellington's "Things Ain't What They Used to Be." Among the solo offerings are Paul McCartney's "When I'm Sixty-Four" and "Yesterday," Alec Wilder's "Blackberry Winter" and George Gershwin's "How Long Has This Been Going On?"

Sept. 21, 8:15 p.m., Sage Chapel: The Cornell University Glee Club, under the direction of Scott Tucker, will present its first concert of the semester. The program's offerings cover a wide range of styles, including music by Josquin Des Prez, Thomas Tallis, Franz Schubert, Ralph Vaughan Williams, Gerald Finzi and others. The concert closes with Cornell Songs by Richard Evans. Admission is \$5 in advance, \$6 at the door. Tickets are available at the Glee Club office in the basement of Sage Chapel or by calling the Glee Club's office at 255-3396 to make reservations.

Cornell Concert Series

The Takács Quartet opens the 1996-97 Cornell Concert Series Sept. 19 at 8:15 p.m. in Statler Auditorium with a program of works by Mozart, Bartok and Schubert. Tickets are available from the Lincoln Hall Ticket Office, 105 Lincoln Hall, Monday through Friday, 10 a.m. to 2 p.m., or by calling 607-255-5144. Tickets are \$13-\$22; students \$10.50-\$17.50. For more information, visit the Cornell Concert Series Web site at <http://www.arts.cornell.edu/Cornell_Concert_Series/>.

Johnson Museum

The Cornell Jazz Ensemble will play in the galleries Sept. 22 from 3 to 5 p.m.

Bound for Glory

Sept. 22: John Danaher and Acoustic Merge will perform. The show runs Sunday nights from 8

to 11 p.m., with live sets at 8:30, 9:30 and 10:30 p.m. in the Cafe at Anabel Taylor Hall. Admission is free. Kids are welcome, and refreshments are available. Bound for Glory, North America's longest running live folk concert broadcast, can be heard on WVBR-FM, 93.5 and 105.5.

religion

Sage Chapel

Robert Giannini, dean of Christ (Episcopal) Cathedral in Indianapolis, will give the sermon Sept. 22 at 11 a.m.

African-American

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

Baha'i Faith

Fridays, 7:30 p.m., Balch Hall Unit 4 Lounge, speakers, open discussion and refreshments. Sunday morning prayers and breakfast, 7 a.m., at alternating locations. For more information, call 272-5320.

Catholic

Weekend Masses: 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: Call the Catholic Office at 255-4228 for an appointment.

Christian Science

Sundays, 10:30 a.m., First Church of Christ Scientist, University Avenue at Cascadilla Park. Testimony meetings sharing healing through prayer and discussion every Thursday at 7 p.m., Founders Room, Anabel Taylor Hall. For more information see <<http://www.msc.cornell.edu/~bretz/cso.html>>.

Episcopal (Anglican)

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

Friends (Quakers)

Meeting for worship, Sundays, 10:30 a.m., Hector Meeting House, Perry City Road. Child care and rides provided. For more information, call 273-5421.

Jewish

Yom Kippur is Sept. 22-23.

Conservative, Statler Auditorium: Kol Nidre, Sept. 22, 6:45 p.m. promptly; Sept. 23, 10 a.m.; concluding services, 5 p.m.

Reform, Anabel Taylor Auditorium: Kol Nidre, Sept. 22, 8:15 p.m.; Sept. 23, 10 a.m.; concluding services (with Conservative), Statler Auditorium, 5 p.m.

Orthodox: Erev Yomn Kippur Mincha, Sept. 22, 4 p.m. at Young Israel; Kol Nidre, Sept. 22, 6:45 p.m., One World Room, Anabel Taylor Hall; Sept. 23, 9 a.m., One World Room; afternoon study session: Sept. 23, 3 to 4:30 p.m., Founders Room, Anabel Taylor Hall.

Fast ends at 7:50 p.m.

Free tickets will guarantee seating at Reform and Conservative services on the first evening of Kol Nidre until 15 minutes before service time. They are available in the Hillel Office, G-34 Anabel Taylor Hall.

Korean Church

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

Lutheran

Sundays, 9:30 a.m., and Thursdays, 7 p.m., St. Luke Lutheran Church, Oak Ave. at College Ave.

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

Protestant Cooperative Ministry: Worship, Sundays, 11 a.m., Anabel Taylor Chapel.

seminars

African Development Institute

"Post-Colonial Francophone Africa," Francis Terry McNamara, Association for Diplomatic Studies, Washington, D.C., Sept. 19, 12:20 p.m., 153 Uris Hall.

"African Development: A Contradiction in Terms?" Jonathan Ngate, Romance studies, Sept. 26, 12:20 p.m., 153 Uris Hall.

Animal Science

"Opportune Intervention: The Poor Richard Approach to Dairy Herd Health," Charlie Elrod, animal science, Sept. 24, 12:20 p.m., 348 Morrison Hall.

Applied Mathematics

"Symmetry and Scale Invariance in Algorithms for Convex Optimization," Levent Tuncel, University of Waterloo, Canada, Sept. 20, 3 p.m., 310 Rhodes Hall.

Astronomy & Space Sciences

"Towards the Distribution of Electron-Density Fluctuations Within the Galaxy," Chris Salter, Arecibo Observatory, NAIC, Sept. 19, 4:30 p.m., 105 Space Sciences.

Biochemistry

"Foamy Viruses: A Breed Apart," Maxine Linial, Hutchinson Cancer Center, Seattle, Sept. 20, 4 p.m., large conference room, Biotechnology Building.

Bioengineering

TBA, Marjolein van der Meulen, mechanical and aerospace engineering, Sept. 19, 3:35 p.m., 165 Olin.

Biophysics

"Synthetic Polymers for Intracellular Delivery of Macromolecules: What Are the Barriers to Delivery of Novel Agents?" Mark Saltzman, Cornell, Sept. 25, 4:30 p.m., 700 Clark Hall.

Chemical Engineering

"Numerical Simulation and Analysis of Particle-Particle Interactions in a Turbulent Aerosol," Lance Collins, Pennsylvania State University, Sept. 24, 4:30 P.M., 165 Olin Hall.

Chemistry

"Nothing Ventured, Nothing Gained," Donald Gulbrandsen, Gulbrandsen Manufacturing Inc., and Andrew Douglas, Bartek Ingredients, a discussion about real-world opportunities for entrepreneurs in the chemical industry, Sept. 21, 8:45 a.m., 119 Baker.

"Novel Molecular Tweezers as Receptors in Host Guest Chemistry: Complexation and Self-Assembly," Frank-Gerrit Klärner, University of

Continued on page 11

CALENDAR

from page 10

Essen, Germany, Sept. 24, 11:15 a.m., 119 Baker.
 "Biology From Femtoseconds to Microseconds: Time-Resolved IR Studies of Myoglobin and Bacteriorhodospin," Philip Anfinrud, Harvard University, Sept. 26, 11:15 a.m., 119 Baker.

City & Regional Planning

"A Planner's Perspective on Affirmative Action: A Look Back at CAP and CETA," Joseph Springer, Ryerson Polytechnic University, Toronto, Sept. 20, 12:15 p.m., Kaufmann Auditorium, Goldwin Smith Hall.

Ecology & Systematics

"Options and Opportunities in the Life of American Crows: Life History Decisions in a Social Bird," Kevin McGowan, ecology and systematics, Sept. 25, 4 p.m., A106 Corson Hall.

Genetics & Development

"The Modern Road Less Traveled: A Non-Geneticist's Approach to Pathogenetic Studies of a Parasitic Nematode," Judy Appleton, Baker Institute for Animal Health, Vet College, Sept. 23, 4 p.m., large seminar room, Biotechnology Building.

Hotel Administration

"A Country-of-Origin Analysis of Tourist Expenditure: The Case of Turkey," Ram Mudambi, University of Buckingham, U.K., Sept. 23, 4 p.m., 165 Statler Hall.

Immunology

"The Cytokine Network in Septic Shock," Bruce Carr, DuPont Merck Research and Development, Sept. 20, 12:15 p.m., Boyce Thompson Auditorium.

Latin American Studies

Latin American Studies Welcoming Reception, Sept. 19, 4 p.m., G08 Uris Hall.

**Manufacturing Enterprise Center/
Cornell Society of Engineers**

"Faster, Better, Cheaper: Silicon Carbide Optical Systems for Space Applications," Dexter Wang, president, and Mark Schwalm, principal engineer, SSG Inc., Sept. 19, 4:30 p.m., 155 Olin Hall.

Materials Science & Engineering

"In Situ Electron Microscopy Studies of Surface Dynamical Processes," Ruud Tromp, IBM Research Division, Sept. 19, 4:30 p.m., 140 Bard Hall.

Mechanical Engineering

On Sept. 24 at 5 p.m. in 219 Baker Lab, Cornell's Project Manager and the Twin Tiers Chapter of the American Society of Heating, Refrigeration and Air-Conditioning Engineers will sponsor a tour of the renovation project of the Baker and Olin Lab, followed by a dinner and panel discussion. For information, contact Jose Fierro at 255-6850 or Art Monaco at 772-8282.

Neurobiology & Behavior

"Comparative Studies of Seasonal Plasticity in the Avian Song Control System," Eliot Brenowitz, University of Washington, Sept. 19, 12:30 p.m., A106 Corson Hall.

Ornithology

"Bird Song - Flute Song," Joe Salzano, Sept. 23, 7:30 p.m., Lab of Ornithology, 159 Sapsucker Woods Road.

Peace Studies Program

"Training for Operations Other Than War (OOTW): Peacekeeping/Peace Enforcement Operations," Richard Garber, Royal Montreal Regiment, Canadian Army, Sept. 19, 12:15 p.m., G-08 Uris Hall.

"Democratic Discourse: Debates About Pluralism, Racism and Citizenship in the United States During World War II," Morton Sosna, foundation relations at Cornell, Sept. 26, 12:15 p.m., G08 Uris Hall.

Pharmacology

"From pico-Siemens to pico-Newtons: Using Mean-Variance Analysis to Understand a Single Molecule's Behavior," Joseph Patlak, University of Vermont, Sept. 23, 4:30 p.m., Lecture Hall III, Veterinary Research Tower.

Plant Biology

"Mitotic Disturbances in Space-Grown Plants," Abraham Krikorian, SUNY Stony Brook, Sept. 20, 11:15 a.m., 404 Plant Science Building.

Plant Pathology

"Finance, Fungi and the Future or How We Do Things 'Down Under,'" Barb Hall, Primary Industries, Adelaide, Australia, Sept. 24, 3:30 p.m., Barton Laboratory, Geneva.

"Replicase-Mediated Resistance to Cucumber Mosaic Virus in Tobacco Involves an Inhibition of Cell-to-Cell and Long-Distance Movement," William Wintermantel, plant pathology, Sept. 25, 12:20 p.m., 404 Plant Science Building.

Psychology

"Three Lenses on Extraordinary Minds," Howard Gardner, Harvard University, Sept. 20, 3:30 p.m., 202 Uris Hall.

Rural Sociology

"Community Implications of a Farm Town's Use as a Growth Machine," Sonya Salamon, University of Illinois, Sept. 20, 2:15 p.m., 32 Warren Hall.

South Asia Program

"Educating Seeta: The Colonial Romance in 19th Century British India," Shuchi Kapila, English, Sept. 23, 12:15 p.m., G-08 Uris Hall.

Statistics

"Nonparametric Estimation of an Unknown Function in the Presence of Correlated Errors," Jean Opsomer, Iowa State University, Sept. 25, 3:30 p.m., 404 Plant Science Building.

Textiles & Apparel

"Personal Protective Evaluation," Catherine Dodgen, ETL Testing, Sept. 19, 12:20 p.m., 317 Martha Van Rensselaer Hall.

"Failure Analysis of Astronauts' Gloves: How Did They Get Cut?" Cheryl Gomes, ILC Dover, Sept. 26, 12:20 p.m., Martha Van Rensselaer Hall.

Theoretical & Applied Mechanics

"The Transfer of Meteorites From the Moon and Mars to Earth," Joseph Burns, theoretical and applied mechanics, Sept. 25, 4:30 p.m., 140 Bard Hall.

symposiums

Applied & Engineering Physics

The School of Applied and Engineering Physics celebrates its 50th anniversary with a symposium, "Challenges and Opportunities for the 21st Century," Sept. 20-21, in Schwartz Auditorium of Rockefeller Hall. Speakers will include Neal Lane, director of the National Science Foundation; Cornell President Hunter Rawlings; Paul Horn, senior vice president for research at IBM; Gerold Yonas, vice president for information and pulsed power research and technology at Sandia National Laboratories; President Emeritus Dale Corson; and Naren Shankar '84, writer and producer. To register for the symposium or for more information, call Lorraine Hollister, 255-0639.

theater

Department of Theatre, Film & Dance

One of the greatest comedies of the French theater, Moliere's *Tartuffe* will be performed Sept. 19-21 and 26-28 at 8 p.m. and Sept. 29 at 2 p.m. in the Proscenium Theatre of the Center for Theatre Arts. Tickets are \$8 and \$6. Call the box office at 254-ARTS for information and reservations. For more information, see the story on Page 12.

miscellany

Bloodmobile

The American Red Cross will sponsor blood drives on campus from 10 a.m. to 3 p.m. on the following dates: Sept. 20, Noyes Center; Sept. 24, Anabel Taylor Hall; and Sept. 30, Malott Hall.

Book Signing

The Campus Store will host a Homecoming Weekend book signing Sept. 20 from 3 to 5 p.m. See the Homecoming story on Page 3 for details about the event.

Campus Club

The Campus Club will sponsor a tour of the Cornell Plantations guided by Fair Gouldin on Sept. 26 at 10 a.m. beginning at the Plantation gift shop in the Plantation Headquarters Building.

Immunization & TB Test Clinic

An immunization and tuberculosis test clinic for new students is scheduled for Sept. 20, from 9 to 11:30 a.m. All new students are required by New York state law to be immunized against measles, mumps and rubella, and Cornell also requires immunization against tetanus within the past 10 years. International students also must have a TB test within one year prior to admission to Cornell or a chest X-ray within one year of entry if they have a history of positive TB tests. No appointment is needed. For more information, call 255-4364.

LGB Resource Office

The Cornell University Gay and Lesbian Alumni and Alumnae Association (CUGALA) will hold a faculty, staff and student open house social Sept. 21 from 4 to 6 p.m. in the LGB Resource Office, G-16 Anabel Taylor Hall.

A writing workshop for lesbians and bisexual women, offered by Irene Zahava, will be held Oct.



The Mystery of Rambo makes its Ithaca premiere this week at Cornell Cinema.

Cornell Cinema screens acclaimed films in their Ithaca premieres

Two critically acclaimed films will have their Ithaca premieres this weekend at Cornell Cinema.

The Silences of the Palace, directed by Tunisian filmmaker Moufida Tlatli, confronts complex issues of women's liberation, colonialism and classism in a feminist coming-of-age story about the life of a kitchen servant and her daughter in 1950s Tunisia.

The Silences of the Palace will be shown Sept. 19 at 7:20 p.m., Sept. 21 at 7:15 p.m. and Sept. 24 at 7:15 p.m. in Willard Straight Theatre. Tickets are \$4.50; \$4 for students, seniors and children 12 and under.

The story is told through memories of a young woman, Alia, a professional singer who grew up in the palace of the Tunisian royalty where she had spent the first 16 years of her life. Her mother is a servant to one of the princes, and life in the royal house is about submitting to the will, sexual and otherwise, of the monarch. Over the course of the film, Alia confronts her personal history in order to more accurately assess how much she has escaped the world of domination in which her mother lived.

Time magazine selected the film as one of the 10 best movies of 1994, and in a review of its screening at the New York Film Festival, *The New York Times* heralded the film as

"truly exceptional . . . a fascinating and accomplished film."

This screening is co-sponsored by the Women's Studies Program.

Japan in the 1930s is depicted in its elegant grandeur in *The Mystery of Rambo*, a story of a mystery writer whose powerful imagination brings to life the characters and stories in his books.

The film will be shown Sept. 20 at 9:45 p.m. and Sept. 23 at 9:20 p.m. in Willard Straight Theatre. Tickets are \$4.50; \$4 for students, seniors and children 12 and under.

Adapted from a tale by Edogawa Rampo, director Kazuyoshi Okuyama uses every technique from animation to montage to tell what happens when a woman is accused of committing the murder described in Rampo's most recent novel. When the novelist falls in love with her, the line between fantasy and reality collapses, and he must stage a daring rescue to save her from the plot he himself has created.

In a 1995 review of the film, *The New York Times* called it an "Alfred Hitchcock film that has been stripped of its pulpy Freudian psychologizing and elevated into a meditation on the artistic imagination."

This screening is co-sponsored by the Office of the Dean of Students.

2 from 7 to 9 p.m. in the LGB Resource Office, G-16 Anabel Taylor Hall. Advance sign-up is required. Names of workshop participants will be kept confidential.

Mann Library Workshops

The following workshops are free and restricted to the Cornell community. Classes are held in the Stone 1 (PC) and Stone 2 (Macintosh) Microcomputer Centers, First Floor, Mann Library. Workshops are limited to 19 participants. Register electronically at <http://www.mannlib.cornell.edu/workshops/> or call the reference desk at 255-5406.

- Advanced Web Searching: Sept. 24, 10:10 to 11:30 a.m., Stone 1 (PC)
- Introduction to Literature Searching: Sept. 19, 2:30 to 4 p.m., Stone 2 (Mac)
- Design Your Own Web Page: Sept. 24, 2:30 to 4:25 p.m., Stone 1 (PC); Sept. 26, 9:05 to 11 a.m., Stone 2 (Mac)
- Managing Your References Using EndNote: Sept. 25, 9:05 to 10:30 a.m., Stone 2 (Mac)

Meditation Group

An ongoing meditation group, open to faculty, staff and students, is being offered twice a week in the Founder's Room of Anabel Taylor Hall: Tuesdays from 5:15 to 6 p.m. and Thursdays from 12:15 to 1 p.m. No previous meditation experience is necessary, and participants can attend regularly or as their schedules allow. For more information, call Nanci Rose in the Health Education Office at 255-4782.

Olin-Kroch-Uris Library Tours

Fall Internet workshops, 2:30 to 4:30 p.m., Uris Library Electronic Classroom, for more information, contact Mary Ochs at mao4@cornell.edu or 255-7148:

- Internet I (Introduction), Sept. 23.
- Internet II (Intermediate), Sept. 30.
- HTML I (Introduction), Oct. 9.
- HTML II (Intermediate), Oct. 16.

Writing Workshop Walk-In Service

Free tutorial instruction in writing starts Sept. 8. • 178 Rockefeller Hall: Sunday, 2 to 8 p.m., Monday-Thursday, 3:30 to 5:30 and 7 to 10 p.m.

- RPCC, Conference Room 3: Sunday-Thursday, 8 to 11 p.m.
- 320 Noyes Center: Sunday-Thursday, 8 to 11 p.m.

sports

Men's Cross Country

Sept. 21, at Fordham Invitational

Women's Cross Country

Sept. 21, at Fordham Invitational

Field Hockey

Sept. 20, Princeton, 7:30 p.m.
 Sept. 22, Lehigh, 1 p.m.
 Sept. 25, at Colgate, 4 p.m.

Ltwt. Football

Sept. 20, at Pennsylvania, 7:30 p.m.

Varsity Football

Sept. 21, Princeton, noon

Men's Soccer

Sept. 20, Princeton, 7 p.m.
 Sept. 25, Syracuse, 7 p.m.

Women's Soccer

Sept. 21, Princeton, 11 a.m.
 Sept. 22, St. Bonaventure, 1 p.m.
 Sept. 25, at Colgate, 4 p.m.

Women's Tennis

Sept. 20-22, Easterns at Princeton

Women's Volleyball

Sept. 20-21, at TCU Invitational
 Sept. 22, at Texas Southern, 1 p.m.
 Sept. 25, at Syracuse, 7 p.m.

CALENDAR

September 19
through
September 26

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

Israeli Folk Dancing

Thursdays, 8 p.m., Edwards Room, Anabel Taylor Hall.

exhibits

Johnson Museum of Art

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.

- "Three Cornell Artists," through Oct. 13.
- "New Furniture: Beyond Form and Function," through Oct. 13.
- "Op Art," through Oct. 13.
- "The Prints of Frank Stella," through Oct. 13.
- "Photo-Realism," through Oct. 13.
- "Pop Art," through Dec. 9.
- "The Power of Women in Renaissance and Baroque Prints," through Dec. 15.
- "Art for Lunch": Sept. 19, noon to 1 p.m., a tour of the "Pop Art" exhibition with Curatorial Assistant Warren Bunn.
- "Artbreak": Sept. 22, 2 to 3 p.m., By the Sea, a tour of works in the permanent collection with Senior Docent Maryterese Pasquale.

Hartell Gallery, Sibley Dome

- Architecture student work, through Sept. 21.
- Rome Program student work, Sept. 21-28.

Kroch Library, Exhibition Room 2B

"A.D. White: A Legacy of Ideas," through Sept. 28.

Martha Van Rensselaer Gallery

(E124 MVR Hall)
DEA: "Stepping into a Virtual World," computer modeling, rendering and animation by students of Kathleen Gibson, through Sept. 24.

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, kids 12 and under and seniors), except for Tuesday night Cinema Off-Center at the Center for Theatre Arts (\$2), Thursday early bird matinees (5:15) and Sunday

Molière's satire *Tartuffe* opens theater season

Cornell's Center for Theatre Arts opens its ninth drama season with a comedy that was controversial in its time. Seventeenth-century French playwright Molière satirizes the serious subject of religious hypocrisy in *Tartuffe*, which runs Sept. 19 through Sept. 29 in the Proscenium Theatre. Performances are at 8 p.m., with a 2 p.m. matinee on Sunday, Sept. 29. Tickets are \$8; \$6 for students and seniors, and are available at the Box Office at the Center for Theatre Arts, 430 College Ave., or by calling 254-ARTS.

"Because of my interest in mime and commedia," says director Ron Wilson, "I was curious to see what would happen if I mixed the ribald physical world of the commedia dell'arte with the verbally dexterous wit of Molière." Wilson explains that Molière did see performances of Italian commedia troupes in Paris, a tradition that profoundly influenced drama throughout Europe.

Tartuffe was first produced in 1664 but it was so violently attacked by religious groups as a burlesque on piety that even the tacit support of King Louis XIV was not sufficient to quell the opposition. Molière had to rewrite the play two times, and it was not until five years later that he succeeded in getting it publicly performed in Paris.

The story takes place in the home of the wealthy Orgon, where Tartuffe — a pious impostor — has insinuated himself. Tartuffe succeeds magnificently in winning the respect and devotion of the head of the house and then tries to marry Orgon's daughter, seduce his wife and secure the deed to his property. Tartuffe nearly gets it all, but an emissary from the King arrives in time to recover the property, free Monsieur Orgon and haul Tartuffe off to jail. Tartuffe's duplicity is finally exposed, but not before Molière has mercilessly examined the evil that men can commit in the guise of religious fervor, and the dangers which imperil those who would believe only what they choose to believe despite a mountain of evidence to the contrary.

Wilson, an associate professor in Cornell's Department of Theatre, Film and Dance, directed last season's *The Importance of Being Earnest* and *Dancing at Lughnasa*.

The cast features several resident professional teaching associates (RPTAs), actors in residence who teach as well as participate in department productions. New RPTAs include David B. Heuvelman as Orgon and Lou Markert as Tartuffe. Returning RPTAs include Mark M. Cryer as M. Loyal and Trish Jenkins as Mme. Pernelle. The cast also includes undergraduates Thomas J. Dixey, Maria Dizzia, Grace Hsu, Jonathan Laurence, Benjamin Thorn, Jon Walker, Melynee Weber and Dara Eden Weiss and graduate student Roger Bechtel.

The production team is Ed Intemann, scenic design; Judy

Johnson, costume design; Michael Williams, lighting design; Chuck Hatcher, sound design; Ty M. Prewitt, stage manager; and Dick Archer, technical director.



Lou Markert, left, and David Heuvelman are featured in the production of *Tartuffe*.

Frank DiMeo/University Photography

matinees (\$3). Films are held in Willard Straight Theatre except where noted.

Thursday, 9/19

"The Umbrellas of Cherbourg" (1964), directed by Jacques Demy, with Catherine Deneuve and Nino Castelnuovo, 5:15 p.m.

"The Silences of the Palace" (1994), directed by Moufida Tlatli, with Amel Hedhili and Hend Sabri, 7:20 p.m.

"Chungking Express" (1994), directed by Wong Kar-wai, with Brigitte Lin Ching-hsia and Tony Leung, 10 p.m.

Friday, 9/20

"Welcome to the Dollhouse" (1996), directed by Todd Solondz, with Heather Matarazzo and Brendan Sexton Jr., 7:15 p.m., Uris.

"The Umbrellas of Cherbourg," 7:30 p.m.

"Goldeneye" (1995), directed by Martin Campbell, with Pierce Brosnan and Sean Bean, 9:15 p.m., Uris.

"The Mystery of Rambo" (1995), directed by Kazuyoshi Okuyama, with Masahiro Motoki and Naoto Takenaka, 9:45 p.m.

"Delicatessen" (1991), directed by Jean-Pierre Jeunet and Marc Caro, with Dominique Pinon and Marie Dugnac, midnight, Uris.

Saturday, 9/21

"The Silences of the Palace," 7:15 p.m.

"Delicatessen," 7:30 p.m., Uris.

"Chungking Express," 9:45 p.m., Uris.

"The Umbrellas of Cherbourg," 10 p.m.

"Goldeneye," midnight, Uris.

Sunday, 9/22

"The Umbrellas of Cherbourg," 2:30 p.m.

"Chungking Express," 7:30 p.m.

"Dr. Mabuse der Spieler: Part I: The Great Gambler" (1922), directed by Fritz Lang, presented by Pentangle, 7:30 p.m., Uris, free.

"Welcome to the Dollhouse," 9:40 p.m.

Monday, 9/23

"Pepe le Moko" (1937), directed by Julien Duvivier, with Jean Gabin and Mireille Balin, 7:15 p.m.

"The Mystery of Rambo," 9:20 p.m.

Tuesday, 9/24

"The Silences of the Palace," 7:15 p.m.

Margaret Mead Film Festival: Racism/Classicism: A Look at America, 7:30 p.m., CTA Film Forum.

"Welcome to the Dollhouse," 10 p.m.

Wednesday, 9/25

"I Want to Live" (1958), directed by Robert Wise, with Susan Hayward and Simon Oakland, 7:15 p.m.

"Frida" (1984), directed by Paul Leduc, with Ofelia Medina, Juan Jose Gurrola and Max Kerlow, Latin American Film Series, 8 p.m., Uris, free.

"Ashes of Time" (1994), directed by Wong Kar-wai, with Leslie Cheung and Tony Leung Kar-fai, 9:45 p.m.

Thursday, 9/26

"Purple Noon" (1960), directed by Rene Clement, with Alain Delon and Maurice Ronet, 5:15 p.m.

"Hate" (1996), directed by Mathieu Kassovitz, 7:45 p.m.

"Fargo" (1996), directed by Ethan Coen, with Steve Buscemi and Frances McDormand, 10 p.m.

be dropped or credit hours may be changed through Oct. 18 without penalty. After Oct. 18 a petition is needed to drop a course or to change course credit. A course dropped after Oct. 18 will appear on transcripts with a "W" (withdrawn). No course may be dropped or changed after Dec. 6.

• **Dissertation and thesis seminars** will be held in Room 100, Caldwell Hall, 2:30 p.m., Tuesday, Oct. 15, for master's theses and Thursday, Oct. 17, for doctoral dissertations. The thesis adviser will discuss preparing and filing theses and dissertations.

• **Reduced tuition:** An application form for reduced tuition must be filed with the Graduate School when applying for reduced tuition for the first time. To receive reduced tuition for this semester, the form must be received by Sept. 20. Qualifications: doctoral candidate, completed six semesters in the Cornell Graduate School, passed A-Exam, no longer taking courses.

• **Hertz fellowship:** Applications for Hertz graduate fellowships are in the Graduate Fellowships Office, Caldwell Hall; available to U.S. citizens (or those applying for citizenship) in the applied physical sciences. Award is \$20,000 stipend plus \$12,000 tuition, renewable; Cornell provides remainder of tuition. Deadline is Oct. 18.

• **Study abroad:** Applications are available at the Einaudi Center for International Studies for Fulbright grants for study abroad. Applicants should meet with the Fulbright adviser, Milton Esman, as soon as possible. For an appointment, contact the Einaudi Center, 170 Uris Hall, phone 255-6370.

• **NSF fellowships:** A limited number of paper applications for National Science Foundation Graduate Fellowships and NSF Minority Graduate Fellowships will be available in the Graduate Fellowships Office. Application also can be made electronically through the World Wide Web at <http://www.fastlane.nsf.gov>. Forms may be requested by e-mail at <stisserve@nsf.gov>. Ignore subject line and enter in the body: <get

graduate bulletin

• **Course changes:** There is a \$10 charge for adding each course after Sept. 20. Courses may

Continued on page 10