

CORNELL Chronicle

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TEACHING EXCELLENCE

Three on faculty are named Stephen H. Weiss Fellows for distinguished teaching of undergraduates.

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ANIMAL ATTRACTION

Friday's ceremonies mark the official opening of the new Veterinary Medical Center on campus.

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'Don't stop now,' President Rawlings tells 1996 graduating class

By Jacquie Powers

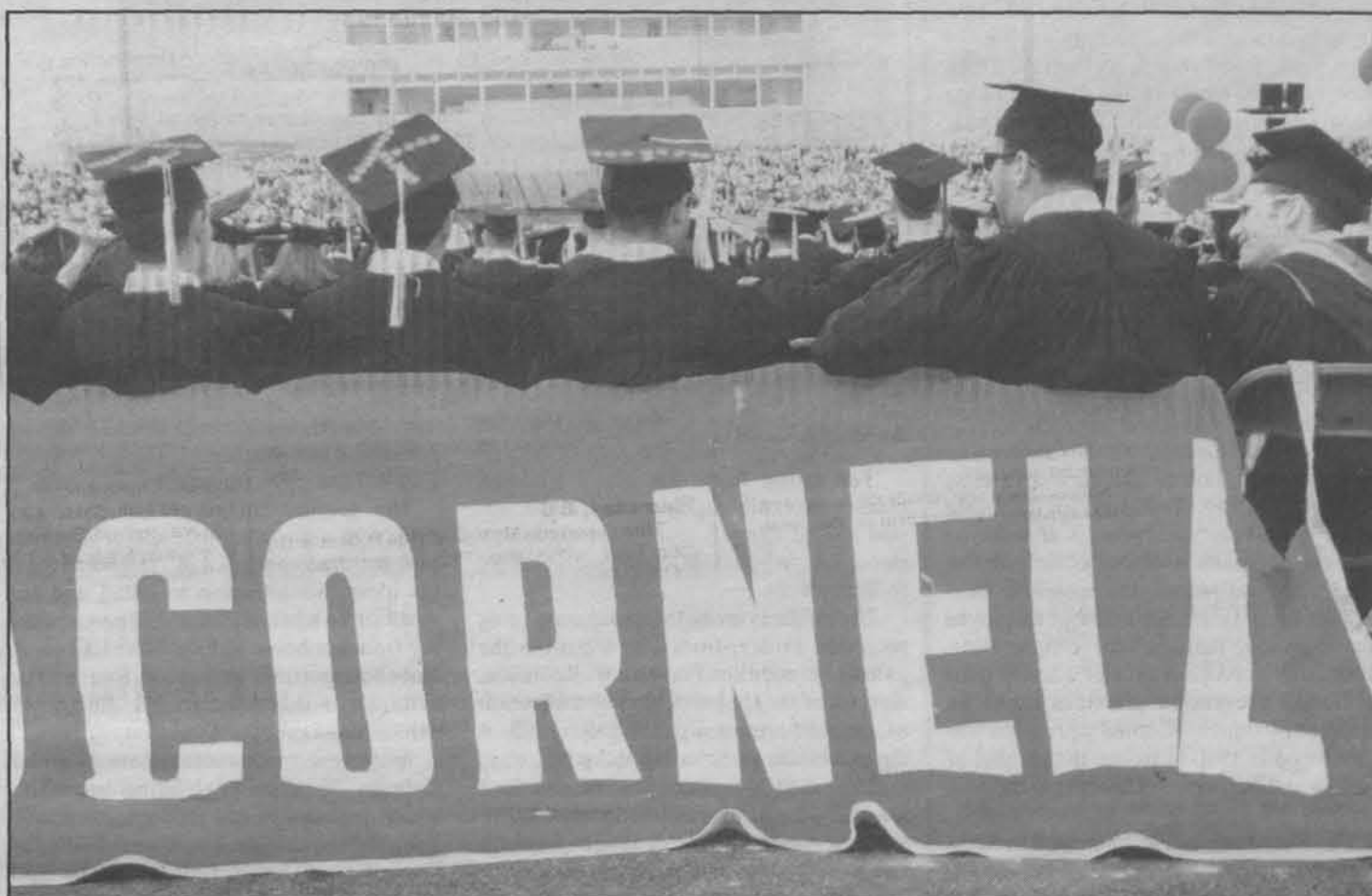
Cornell President Hunter Rawlings, in his first commencement since assuming the presidency, urged the almost 6,000 students receiving degrees to enrich their lives by continuing the tradition and practice of learning that they have profited from during their years at Cornell.

"If there is one message I hope you'll take with you it is, 'Don't stop now.' You have learned a lot. You leave with a lot. But it is not enough. Keep on learning — and your life will be rich and full," Rawlings told celebrants at the 128th Commencement May 26.



Rawlings

Under fair skies at Schoellkopf Field, before embarking on the heart of his commencement message, Rawlings thanked the graduating class for a string of accomplishments that drew rounds of applause and bursts of laughter. These included thanks for filling Lynah Rink and helping bring back Ivy titles for both the men's and women's ice hockey teams; thanks for setting the standard for public service; thanks for a rainy, sane and safe Slope Day; and, to the biggest outbreak of applause, "thank you for reassuring me that the Cornell tradition of demonstrations and protests is alive and well. By conservative estimate, you've participated in — or endured — three major protests, and at least 103 minor skirmishes. You've protested everything from the GOP's Contract with America, to student aid cuts; from vandalism of Daniel Martinez's Arts Quad sculpture, to proposed changes in residential housing policy, to whether the university should — or should



Frank DiMeo/University Photography

Graduates enjoyed pomp, circumstance and good weather at commencement ceremonies in Schoellkopf Field.

not — try to rescue a stranded deer."

Turning more serious, Rawlings told graduates, their families and friends that, "in its variety and its scope, Cornell is the quintessential research university of the late 20th century. It has a remarkable, indeed unique, collection of academic resources — statutory and endowed, practical and theoretical — dedicated to public service, as well as to research, scholarship and teaching. Charting new ground at its founding as the first truly American university, it has con-

tinued evolving to meet emerging state and national needs. Like other institutions of its kind, it has vastly increased the nation's research capacity; given us breathtaking advances in the sciences and in medicine; and, in more recent decades, expanded technology-transfer operations that stimulate economic development. The American research university, of which Cornell is such a splendid example, has a remarkable range, a wealth of dimensions. Over the past few years, you've confronted that complexity

and put it to good use."

Rawlings pointed out, however, that "within its complexity and diversity, the university retains certain core values that have made it among the most long-lived of human institutions as well as among the most responsive to change."

"We work here at Cornell to assure that 460 years in the future, many of today's universities, including Cornell, will still exist as universities, in recognizable form. They

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CU trustees approve statutory tuition rates and new housing policy

By Jacquie Powers

The Cornell Board of Trustees unanimously approved a new residential housing policy as well as statutory college tuition rates at its regular meeting May 25.

The trustees approved an overall residential housing goal designed to unite undergraduates' residential and academic lives, and seven basic principles the administration believes will help to achieve that goal. These will guide the university's residential communities policy in the coming years. The full text of the document, "Cornell University Residential Communities Policy Statement," released May 2, is available electronically at <<http://www.sas.cornell.edu/rescomm/policy.html>>.

President Hunter Rawlings' vision for Cornell's residential community is set forth in the goal approved by the trustees and which garnered extensive support on campus: "Cornell University will provide supportive residential communities that contribute to an intellectually engaged and socially responsible campus environment."

Further, Rawlings has said, his aim is to create a residential policy for Cornell that "seeks to provide its undergraduates with a broad exposure to the university and particularly to the intellectual life of the campus.... that will be seen as a model for linking the academic and non-academic lives of students into a cohesive whole."

Rawlings did not ask the trustees to take any action or



Adriana Rovers/University Photography

The Board of Trustees, including, from right, Martin Y. Tang, J. Thomas Clark and Ellen G. Adelson, met in open session in Clark Hall on May 25.

review any recommendations on the issue of Cornell's 10 program houses. As a result of recent discussions on campus between members of the administration and concerned students and faculty, any action on the matter of program houses in general, and on the option for freshmen to live in program houses, has been delayed until students return to the campus in the fall.

At that time the administration will begin a full campuswide dialogue, involving students, faculty and staff, on the subject. That discussion is expected to proceed over

Continued on page 4

Full weekend planned for returning alumni

Some 5,500 alumni and guests are expected to visit Ithaca today through Sunday and reunite with former classmates and professors, revisit favorite haunts, sample classroom offerings and commemorate longstanding traditions during Reunion 1996.

Activities include: recreational and sporting events; guided tours of the campus and campus facilities; cruises on Cayuga Lake; the nightly Reunion tents on the Arts Quad; and gastronomic functions galore, including the annual alumni luncheon at noon on Friday and Saturday in Barton Hall.

One of the highlights of the weekend's smorgasbord of educational forums, symposia and lectures will be the annual Spencer T. and Ann W. Olin Lecture on Friday at 3 p.m. in Bailey Hall, delivered by Beverly Sills, Lincoln Center board chair.

At 10:30 a.m. on Saturday, also in Bailey Hall, President Hunter Rawlings will deliver his first State of the University Address at a Cornell Reunion. That evening in the same location, beginning at 9:30 p.m., Cornelliana Night will feature songs from the Alumnae Chorus and Alumni Glee Club.

Alumni with questions about activities can contact the Reunion information desk in Barton Hall, through Saturday afternoon, at 255-3127 or 255-1049, or the Office of Alumni Affairs, 626 Thurston Ave. at 255-2390, 255-4850 and 255-7085.

BRIEFS

■ Donated clothing: Before they left campus in May, Cornell students donated 27,450 items of clothing to six local community agencies, according to Connie Fuess, one of the organizers of the annual clothing drive. Recipient agencies are the Tompkins County Task Force for Battered Women, the Tompkins County Economic Opportunity Corporation (EOC), Family and Children's Services, the local Tibetan refugee association, HOMES Inc. and the Committee on United States/Latin American Relations (CUSLAR). Donations were received from faculty, staff and students. The drive was sponsored by Ecology House in cooperation with the university's Office of Campus Life and volunteers from the Ithaca Rotary Club. Chair of the 1996 clothing recovery drive was Amber O'Reilly, a resident of Ecology House and a 1996 Agriculture and Life Sciences graduate.

■ Pollution prevention award: New York Governor George Pataki recently presented Cornell's Transportation Demand Management Program with a 1996 Governor's Award for Pollution Prevention. Cornell was one of nine organizations in the state to receive the award for outstanding environmental protection programs, and the university is the first not-for-profit organization to win the award in its nine-year history. Applicants for the award were judged on "their success at reducing hazardous pollution, as well as their overall environmental record, the economic benefits of the program, the extent of employee participation, management commitment, community involvement and whether their pollution prevention practices could be adopted by others." Cornell's program was developed in 1990 to reduce the number of faculty and staff vehicles brought to campus.

■ English teachers: Interested in helping people from foreign countries associated with the Cornell community? The Cornell Campus Club has a program for teaching English as a second language to persons temporarily in Ithaca. The teaching commitment is for one, two-hour class per week plus preparation. The Summer Session runs from July 1 through Aug. 2. For more information, contact Marie Dullea at 277-2488 or Joan McMinn at 277-0013.

Chronicle summer schedule

The publishing schedule of the *Cornell Chronicle* for the next three months will be: June 13, 20 and 27; July 11 and 25; and Aug. 8, 15, 22 and 29. There will be no editions July 4 and 18, and Aug. 1.

CORNELL Chronicle

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En garde



Charles Harrington/University Photography

The Andrew P. Stifel '91 Fencing Salle, in the lower level of the Field House, was dedicated on April 27. The facility was made possible by the generosity of Peter B. Stifel and Gladys Lunge Stifel, both members of the Class of 1958 and their family, and of Nina Farouk '97 and her family. From left, Gladys Lunge Stifel, Katherine G. Stifel '87, Andrew P. Stifel and Peter B. Stifel pose at the dedication.

Ten alumni have works in Reunion art exhibition

By Darryl Geddes

Ten artists from this year's Reunion classes are exhibiting their work at the second annual Cornell alumni art exhibition through June 14 in the John Hartell Gallery in Sibley Hall.

The public is invited to attend an opening reception Friday, from 4 to 6 p.m. in the gallery. In addition, Franklin W. Robinson, director of the Herbert F. Johnson Museum of Art, will present a public gallery talk at the exhibition on Saturday at 3 p.m.

More than 30 works—most of which are for sale—are being exhibited at the alumni show, representing a wide range of artistic talent in various media, from watercolor and oil to computer graphics and web page design.

"We're delighted to have such a varied show," said Jean Locey, professor and chair of Cornell's Department of Art. "It's important for us to showcase the work of our successful alumni."

One contributor, Sandra Albert Wittow '56, has artwork hanging in the Denver Art Museum, the University of Colorado and in numerous private collections. "I've been

very fortunate to have been able to continue painting since graduating from Cornell," said Wittow, who graduated with a BFA.

Her greatest source of influence, she said, was a former professor at Cornell, novelist Vladimir Nabokov. "I learned from his ideas, his attention to detail and his devotion to research," said Wittow, speaking from her home in Englewood, Colo. A Nabokov portrait is one of four pieces Wittow has submitted for the alumni art exhibition.

Wittow's former classmate Barbara Erdman '56 also is exhibiting her work, which includes mixed media monoprints. "This will be the first time I've exhibited at Cornell since I was a student," she said recently. Erdman, who makes her home in Sante Fe, N.M., has had solo exhibitions at the Scottsdale (Ariz.) Center for the Arts, Sante Fe Center for Photography and Aspen Institute. In 1994, her show titled "Mathematical Models & Other Matters" was featured at the American Association for the Advancement of Science in Washington, D.C.

Nina Sobell '71, from New York City, is an artist who first began to use electronics when she videotaped participants' undi-

rected interactions with her giant movable sculptures for her master's thesis at Cornell. Her work in the field since has included an interactive public-access video/EEG interface and a public-access videophone interface, the installation of a matrix of oscillating cameras in a New York City storefront, and a network of kiosks in Manhattan incorporating the World Wide Web. Her exhibit at Cornell—"Artistheatre: Sculpture Performance Archives"—is being presented online, with a computer connection to the Web via Netscape.

Also featured are:

- From the Class of 1971—Leslie K. Brill of Brooklyn; Joel S. Carreiro of Upper Nyack, N.Y.; Lisa Romm of Brooktondale, N.Y.; and Nina G. Schwartz of Alexandria, Va.

- From the Class of 1966—Elizabeth Roubloff Zeisler of Potomac, Md.

- From the Class of 1961—Margaret Doorey Hepburn of Sussex, England; and Karl Rosenberg of Brooklyn.

Gallery hours are Monday through Friday, 8 a.m. to 5 p.m.; Saturday, June 8, from 9 a.m. to 5 p.m.; and Sunday, June 9, from 9 a.m. to 5 p.m.

Greatbatch '50, pacemaker inventor, wins lifetime award

By Linda Grace-Kobas

Wilson Greatbatch '50, whose invention of the implantable cardiac pacemaker is estimated to have saved three million lives since first used in 1960, was awarded the 1996 Lifetime Achievement Award by the Lemelson-MIT Prize Program administered by the Massachusetts Institute of Technology.



Greatbatch

The announcement was made April 11 at the New York Academy of Sciences by MIT economist Lester C. Thurow, who chairs the prize board that oversees the selection process.

Greatbatch was honored that evening at the National Museum of American History in Washington, D.C., with genetic engineers Stanley Cohen of Stanford University and Herbert W. Boyer of the University of California at San Francisco, who won the 1996 Lemelson-MIT Prize for American invention and innovation.

"These winners demonstrate American ingenuity at its finest—finding new solutions that build companies and create jobs," Thurow said.

Greatbatch's inventions—he holds 150 patents—have resulted in nine new companies, including Medtronic, Inc., the world's

top producer of therapeutic implantable devices with sales of \$1.4 billion in 1994, and Wilson Greatbatch Ltd. in Clarence, N.Y., which employs 570 people and recently announced a \$6 million expansion. Greatbatch is president and CEO of Greatbatch Gen-Aid Ltd., which is conducting AIDS research.

He is a member of the National Inventors Hall of Fame, the National Academy of Engineering and the National Aerospace Hall of Fame.

A fellow of the New York Academy of Sciences, Greatbatch has authored or co-authored more than 100 technical articles, book chapters and one book. His implantable cardiac pacemaker was chosen by the National Society of Professional Engineering in 1983 as one of the 10 greatest engineering contributions to society in the past 50 years.

Greatbatch springs from a modest background. Born in Buffalo in 1919, son of a grocer and small home repair contractor, he served in the Navy during World War II as a rear gunner in carrier-based dive bombers and then studied electrical engineering at Cornell, graduating in 1950 ("the second GI Bill class," he says).

He had three of his five children as a Cornell student, and he worked several jobs at once to support his family. He ran the WHCU transmitter overnight, sitting in a cold building on top of a hill; he worked at the Psychology Department's Animal Be-

havior Farm in Varna, where he says he learned physiology; and he built amplifiers for instrumentation involved in the Arecibo radiotelescope project.

After leaving Cornell, Greatbatch went to the State University of New York at Buffalo to earn a master's degree in electrical engineering, and while there conducted experiments at the Buffalo Veterans Administration Hospital that led to the development of the implantable pacemaker.

He has maintained close ties with Cornell, serving on the University Council and as an adjunct professor of engineering. He has conducted research with the College of Veterinary Medicine and with John C. Sanford, associate professor at the Agricultural Experiment Station in Geneva, with whom he earned a patent for work in stopping reproduction of a virus similar to HIV in cats.

Now a grandfather of five, Greatbatch lives with his wife, Eleanor, in Clarence, where they farm a half-acre garden, can and freeze their harvest and make their own dyes for fabric.

His Eleanor and Wilson Greatbatch Foundation has funded the purchase and restoration of historical buildings, awarded grants to senior center homes and town parks and created an engineering wing at Houghton College.

Commenting on his latest prize, Greatbatch said: "Just immerse yourself in the problem and work hard. The true reward is not in the results but in the doing."

OBITUARIES

Frances Lehman "Peter" Loeb, Cornell presidential counselor and trustee emerita, died May 17 at her home in New York City. She was 89.

A lifetime member of the Cornell Medical College Board of Overseers, she, in partnership with her husband, endowed the John and Frances Loeb Librarianship and the Frances L. Loeb Medical Scientist Fellowship at the college.

She served on the Cornell Board of Trustees from 1979 to 1988 and was a member of the Land Grant and Statutory College Affairs and Alumni Affairs and Development committees.

She also served on the Herbert F. Johnson Art Museum Council and the Center for Theatre Arts fund-raising and planning committee.

The board of trustees passed a resolution honoring her as a "staunch champion of this University" at its May 25 meeting.

She is survived by her husband of 69 years, John L. Loeb, five children, 14 grandchildren, and 30 great-grandchildren.



The Stephen H. Weiss Presidential Fellows were announced on May 25 in Willard Straight Hall. The awardees, standing with President Hunter Rawlings, second from left, and Stephen Weiss, far right, are, from left to right, Lois Willett, Daniel Huttenlocher and Frederick Ahl.

1996 Weiss Presidential Fellows awarded

President Hunter Rawlings has named the 1996 Stephen H. Weiss Presidential Fellows, honoring their "effective, inspiring and distinguished teaching of undergraduate students."

The honorees, announced at a May 25 dinner on campus, are: Frederick M. Ahl, professor of classics; Daniel P. Huttenlocher, associate professor of computer science; and Lois S. Willett, associate professor of agricultural research and managerial economics.

The awards — \$25,000 each over five years — are named for the chairman of the Cornell Board of Trustees, Stephen H. Weiss '57, who endowed the program. Each year the Weiss Presidential Fellows Selection Committee seeks nominations from junior and senior students, faculty and academic staff for the distinguished fellowships, from which the committee selects a half dozen candidates for the president's final selections.

Fellows carry their titles as long as they stay at Cornell and may hold them concurrently with other named professorships. This year's honorees came highly recommended:

Frederick M. Ahl

Ahl studied classics at Cambridge University, where he received bachelor's and master's degrees, and at the University of Texas, where he received his doctoral degree. He taught at the Texas Military Institute, Trinity University, University of Texas at Austin and University of Utah

before joining the Cornell faculty in 1971.

His courses have addressed a myriad of topics, including Greek and Roman epic, drama and intellectual history. When not directing the classroom, he has played a major role in theater productions in Ithaca, including those of the Cornell Savoyards.

Ahl received the Clark Award for Distinguished Teaching from Cornell in 1977 and a fellowship from the National Endowment for the Humanities in 1989-90. He recently served as director of a series of National Endowment for the Humanities Summer Seminars for School Teachers in Spetses, Greece, and as director of Cornell Abroad in Greece.

In nominating Ahl for the Weiss Fellowship, student Michael P. McGrann wrote, "He is a proponent of tearing down the wall of formality that often exists between students and their professors: He arranges meetings at the Temple of Zeus rather than sit in his office, and he invites entire classes to his home for dinner and a movie. He understands that interaction between students and professors—as well as between students and students—is a valuable part of a university career, not only for the students but for the professors."

Barry S. Strauss, director of peace studies and a professor of history and classics who has known Ahl for 25 years, wrote, "When it comes to making the ancient world come alive, Fred stands second to no one I have known here and

in several other institutions of higher education."

Daniel P. Huttenlocher

Huttenlocher has been associate professor of computer science since 1994 and was assistant professor since 1988. He also is principal scientist at Xerox Corp.'s Systems and Practices Laboratory in Palo Alto, Calif., where he has worked mostly during summers since 1988.

An expert in robotics and computer vision, Huttenlocher is an award-winning teacher. At Cornell, he was named three times as an Outstanding Educator for having most influenced a Cornell Merrill Presidential Scholar. In 1993, he was selected as New York State Professor of the Year by the Council for the Advancement and Support of Education and the Carnegie Foundation.

Also in 1993, Huttenlocher earned the Russell Distinguished Teaching Award in the College of Arts and Sciences and the Tau Beta Pi and Cornell Society of Engineers Award for Excellence in Teaching in the College of Engineering. A former Presidential Young Investigator (1990-1995), Huttenlocher won the Faculty of the Year Award from the Association of Computer Science Undergraduates at Cornell in 1992.

Huttenlocher remodeled the honors section of an introductory-level computer science course and, with Bruce Donald,

Continued on page 4

New associate VP is appointed for human resources

By Linda Grace-Kobas

The appointment of Mary George Opperman as associate vice president for human resources has been announced by Senior Vice President Frederick A. Rogers.

She will assume her new position July 15.

Opperman comes to Cornell from Harvard University, where since 1983 she has served in roles of increasing responsibility. In her current position as director of employee services, employment and training, Opperman manages all aspects of staff relations, strategic planning and policy development, longer service benefits, and work/family and special programs functions.

"I am delighted that Mary George Opperman has agreed to assume this important post at Cornell," Rogers said. "Her wide range of experience at Harvard, which involved all aspects of human resources activities, including labor relations, benefits planning and implementation, compensation and professional training, has given her special expertise in the development of a comprehensive human resources program."

"Ms. Opperman joins Cornell at an especially challenging time, during which the university has undertaken Project 2000, which is a major 'reengineering' of administrative and academic units and a complete overhaul of its administrative technological systems," Rogers added. "She will oversee the continuing redesign of the office of University Human Resources Services to improve cost-effective services, to facilitate delivery of employee benefits and to implement a total compensation strategy. I look forward to working with her as part of Cornell's senior management team."

In her associate vice president position at Cornell, Opperman will report to Rogers and be responsible for benefits planning and administration for faculty and staff, professional and leadership development for supervisory staff, for compensation, employment, employee and labor relations for non-academic staff, and for work and family issues, an integrated faculty/staff health program, human resource communications and human resource information systems. With an operating budget of \$2.1 million, Cornell's human resources division includes eight managers/directors and 60 support personnel.

"Mary Opperman will be leading a strong team of dedicated human resource professionals," said Joycelyn R. Hart, current acting associate vice president for human resources. "I am fully confident that under Ms. Opperman's leadership University Human Resources Services will be able to meet the challenges ahead."

A native of Clinton, N.Y., Opperman earned a bachelor of arts degree from the State University of New York at Oneonta in 1980.



Opperman

Reynolds is promoted to associate vice president and university controller

By Jacque Powers

Yoke San Reynolds, Cornell controller since 1991, has been appointed associate vice president and university controller.



Reynolds

The promotion and title change, announced by Senior Vice President Frederick A. Rogers, reflect the restructuring taking place in the office of the senior vice president. In July 1995, Rogers eliminated the position of vice president for finance and treasurer. Under the new structure, Rogers said, he relies more heavily on Reynolds and others for leadership in the areas of policy development and operational support.

"Yoke San has shown strong leadership in resolving Cornell's outstanding indirect cost issues; in reorganizing

the statutory and endowed accounting offices to accommodate budget reductions and a goal of more coordinated services; in the development of well-documented policies and procedures; and in the new systems initiatives where reengineering efforts are now under way," Rogers said.

"I am pleased to recognize her leadership with this title and look forward to her active involvement in the critical issues facing Cornell in the future," he added.

Reynolds continues to be responsible for the areas of accounting, bursar, purchasing, payroll, cost analysis and financial systems. She also chairs the university's Policy Advisory Group, which is supported by the university policy department.

In addition, she is serving as the executive sponsor in charge of two of the university's five current computer systems implementation projects. These projects are under the umbrella of Project 2000, which is designed to streamline the university's administrative processes. Its goal is to

make them more efficient and effective, thereby allowing the university to focus more fully on its core mission of teaching, research and public service.

Reynolds' Project 2000 responsibilities include the human resources system, payroll system and the group of financial systems.

Reynolds received her B.A. degree from the University of Singapore. She received an M.A. in economics from the University of Michigan and an M.S. in accounting from the State University of New York at Albany. She became a licensed certified public accountant in 1985.

She was a research fellow at the Ford Foundation Economic Research Center and won the Horace Rackham Prize at Michigan. Before coming to Cornell in December 1991, she was assistant vice president for financial management at SUNY Albany. She also was deputy comptroller of a Naval Reserve command and an accountant with Coopers and Lybrand, a "Big Six" accounting and consulting firm.

Rhodes professorship



Philip Lewis, dean of the College of Arts and Sciences, announced that Vivienne Shue, professor of government, will be the first Frank and Rosa Rhodes Professor in Chinese Government. On the Arts Quad with the dedication plaque for the endowed professorship are, from left: Philip Lewis; Vivienne Shue; President Hunter Rawlings; Elizabeth Rawlings; Trustee Robert Miller; Rosa Rhodes; Frank H.T. Rhodes, president emeritus; and Trustee Martin Tang. Miller made the lead gift and he and Tang spearheaded fund-raising for the chair, dedicated May 25.

Jon Reis

PCCW awards 18 research grants to CU women

By Linda Grace-Kobas

The President's Council of Cornell Women (PCCW) has awarded 18 grants to help advance the careers of women in academia through support of the completion of dissertations and research leading to tenure and promotion.

The new grants bring the total number of research studies and projects supported by PCCW to 79 since the award program was established in 1992. The alumni group is building an endowment to ensure the funding of future grants and projects for women.

Two faculty members and 16 Ph.D. candidates are recipients of 1996 PCCW grants.

The faculty members are Susan Ashdown, assistant professor, Textiles and Apparel, for "Body Configuration as a Factor in the Fit of Clothing for Mature Women" and Ronit Simantov, assistant professor, Hematology/Oncology, Cornell Medical College, for "Mechanisms of Thrombosis in Patients with Systemic Lupus Erythematosus."

Ph.D. candidates receiving PCCW grants

are: Elizabeth Barham, Rural Sociology, "Social Movements in Sustainable Agriculture: A Comparison of France and the United States"; Stacey Benton, Neurobiology and Behavior, "The Neuronal Substrates of Seasonal Variation in Bird Song: A Quantitative Study"; Elena Bobrovnikova, Center for Applied Mathematics, "Iterative Method of Least Squares"; Janie Brooks, Ecology and Systematics, "Chemical Signals on Leaf Surfaces: Keys to Recognition by Ovipositing Insects"; Nancy E. Grudens-Schuck, Education, "Participation, Learning and Leadership in an Environmental Program for Agriculture in Ontario, Canada"; Celia Harvey, Ecology and Systematics, "Forest Regeneration Within Agricultural Wind Breaks in Monteverde, Costa Rica"; Rachel Hastings, Mathematics, "Geometric Combinatorics at the Mathematical Science Institute"; Lisa Keister, Sociology, "Intercorporate Networks and the Dynamics of Firm Performance: A Proposal to Study the Impact of Business Group Structure on Firm Outcomes in the People's Republic of China."

Also, Michelle M. McClure, Ecology and Systematics, "Evolution and Development of Pigmentation Patterns of Fishes in the Genus Danio (Teleostei: Cyprinidae)"; Helga Ochoterena-Booth, Ecology and Systematics, "Monographic Study of the Genus Hintonia Bullock (Rubiaceae)"; Aneta Pavlenko, Linguistics, "Bilingualism and Cognition"; Marcia Ramos, Electrical Engineering, "Activity Selected Image and Video Coding"; Courtney Spencer, Chemistry, "A Synthetic Search for Ferroelectric Sulfides: Potential Nlo Materials"; Yongmei Cindy Wang, Electrical Engineering, "A Novel Analog/Digital Secure Communications Approach Using Chaos"; Rachel Weber, City and Regional Planning, "The State as Stakeholder: Corporate Governance and Defense Industry Conversion"; and Denise M. Weilmeier, Food Science, "The Mechanism of Phosphates as Antioxidant in Atlantic Macrele (Scomber Scombrus, L.) White Muscle."

Information about PCCW is available from the PCCW office on the third floor of 626 Thurston Ave., (607) 255-6624.

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associate professor of computer science, developed a senior-level robotics and vision course that has expanded into the nation's first undergraduate robotics lab.

Huttenlocher earned the Ph.D. (1988) and graduate degree (1984) from the Massachusetts Institute of Technology and an undergraduate degree from the University of Michigan (1980).

According to the nominating letter from Robert L. Constable, chair of the Department of Computer Science, Huttenlocher "is a teacher of the caliber that comes along perhaps once in a generation, and I believe that he is already in the class of those who have been designated as Weiss Fellows."

"By his selfless devotion to his teaching and research, Dan conveys to the students their importance to him, and they respond to it. When we approached several of his students last year about writing supporting letters for this nomination, we learned that they had already started a nomination package on their own. They were quite willing to combine their efforts with ours, but we find it telling that their esteem for Dan was such that they would undertake this task unasked."

A former student, Eric Jaquith, wrote: "His whole energy and soul went into his teaching; his priority was the students' understanding and well-being in their education. His contribution to my education was immeasurable."

Lois Schertz Willett

Willett was selected for a sustained program of highly effective teaching in several large courses, including price analysis, information systems and decision models, and econometrics. She introduced computer technologies into her lecture and laboratory course and has bridged economic theory and analytical methods by arranging for students to hold "course conversations" with corporate executives.

In 1994 Willett was awarded a State University of New York Chancellor's Award for Excellence in Teaching, and she was presented this year with the College of Agriculture and Life Sciences' Professor of Merit Award, elected by students. She also has received the 1996 College of Agriculture and Life Sciences award from the Faculty Technology Initiative Program for Undergraduate Course Enhancement.

Willett grew up in northern Virginia and earned her bachelor's degree in mathematics at the College of William and Mary, Williamsburg, Va. She then earned her master's degree in systems modeling at Dartmouth College, Hanover, N.H., and received her doctorate from the University of California at Davis.

In 1987 Cornell appointed her assistant professor in the Department of Agricultural Economics, and she was promoted to associate professor in 1995.

"While my impression was that the value of course work is often realized long after graduation, my experience in Professor Willett's information systems and decision analysis class last fall proved otherwise," wrote Rohit Mehrotra, one of Willett's former students. "The value of the class lay in her ability to perfectly match the teaching style with the needs of the students. From its onset, Professor Willett paved an applied approach to this upper level agricultural resource and managerial economics class, which has been instrumental in my personal job search."

"The content of her courses combine the latest in theory and analytical methods, yet are current and relevant to the real world," said George Casler, emeritus professor and chair of the Department Awards Committee. "Her enthusiasm stems from a desire to understand a body of knowledge and explain it to students so they can apply their knowledge to analyze real world situations."

"Lois is always available to meet the needs of students when they are confronted with difficult problems," Casler said. "She encourages the students to acknowledge their situation, think of alternative solutions, develop a plan to deal with the situation and then act on the plan."

Trustees continued from page 1

the next several years, with students, faculty and staff included on committees involved in planning and implementing the new residential communities.

The trustees also approved 1996-97 tuition rates for the statutory colleges, which receive most of their funding from New York state, despite the fact that the state budget is almost two months overdue. The tentative rates include a \$250 a year increase contemplated in the governor's executive budget recommendations for the State University of New York.

The trustees approved the following tuition rates with the stipulation that they will be reconsidered as necessary depending on the state's final higher education allocation:

- Undergraduate resident, \$9,050, an increase of 6.6 percent.
- Undergraduate non-resident, \$17,670, up 7.4 percent.
- Graduate non-veterinary, \$10,660, up 6.6 percent.
- Doctor of veterinary medicine resident, \$13,800, up 5.5 percent.
- Doctor of veterinary medicine non-resident, \$18,600, up 5.6 percent.
- Graduate veterinary, \$11,350, up 6.6 percent.
- Graduate reduced, \$8,000, up 14.3 percent.

Skating room



Laing E. Kennedy '63, Cornell director of athletics from 1983 to 1994, speaks at the dedication of the new women's ice hockey locker room in Lynah Rink, on May 4. The facility is a gift from the Robison Fund in honor of Sandra and Laing Kennedy.

Frank DiMeo/University Photography

Kennedy tells graduates environmentalism is the American way

By Jill Goetz

Many of the 4,100 people who poured into Barton Hall on May 25 for Senior Convocation expected an impassioned defense of the environment from guest speaker Robert F. Kennedy Jr., the attorney who has made it his life's calling. But what they heard was a speech grounded as much in American history as it was in environmental advocacy.

"We enjoy in this country, in our social institutions, a greater connectedness to nature than any of the other industrialized nations on earth; it defines who we are as a people," said Kennedy, who last spoke on

'Washington, Jefferson, Lincoln - all of them were naturalists.'

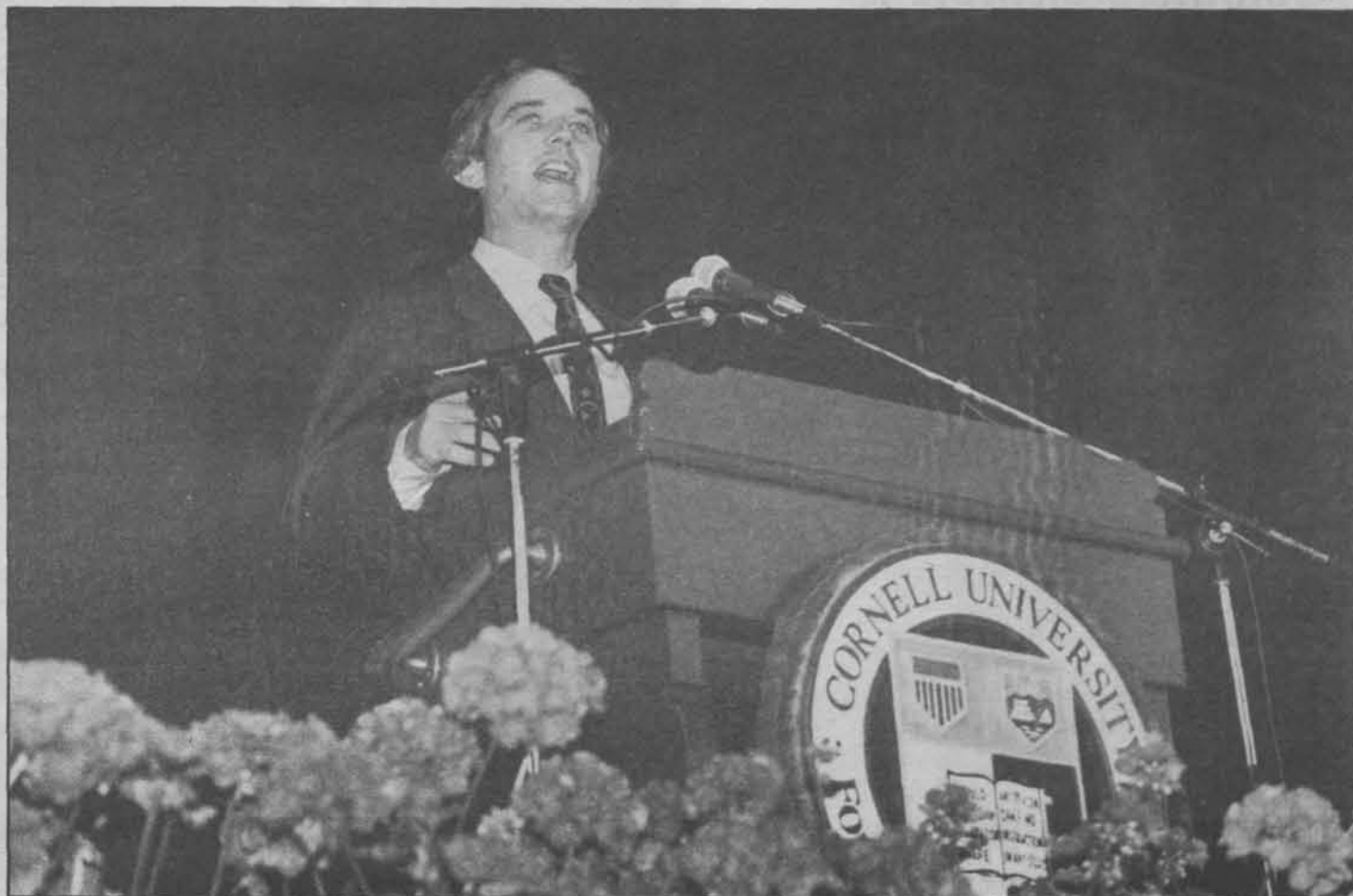
campus in 1993. He is the second oldest of the late senator's sons.

As senior attorney for the Natural Resources Defense Council, supervising attorney at Pace University Law School's Environmental Litigation Clinic and chief prosecuting attorney for the Hudson Riverkeeper, Kennedy has sued alleged polluters on behalf of thousands of clients, many of them commercial and recreational fishermen along the Hudson River.

In a 45-minute address, without referring to notes, Kennedy recited a slew of statistics and anecdotes to illustrate the parallels between America's political, cultural and spiritual heritage and its peoples' reverence for the land.

"We are unique as a people in this country," Kennedy said, "and all you have to do is look around and see that - in this crowd. We come from all over the world. We don't share any common history, or culture, or race, or language or religion. The only thing that allows us to call ourselves a nation instead of, for example, a continent is, one, our shared values - and that means our love of democracy and the political institutions we have created in this country - and the other is the land.

"It's not an accident that our nation invented the national park. We didn't have the great cathedrals and monuments of Europe. . . . We said, 'This is who we are as a people; this is what makes us



Adriana Rovers/University Photography

Environmental lawyer Robert F. Kennedy Jr. speaks to a Bailey Hall crowd at Senior Convocation, May 25.

special; this is what unites us."

He continued, "Our cultural institutions, our political institutions are rooted in nature; they grew out of it almost organically. Frederick Jackson Turner, who was one of the greatest American historians, said American democracy came out of the forest; without the great wilderness areas we would never have evolved the great political institutions in their current form."

Kennedy told several anecdotes about American political leaders of the past to illustrate their ties to the land. "Washington, Jefferson, Lincoln - all of them were naturalists," he said. "All of them were rooted in the soil, and that rootedness gave them a special clarity of vision in terms of who we are as a people and what our national destiny was. . . .

"One of Thomas Jefferson's first acts as president was to send Lewis and Clark out to the western region of this nation to inventory the wildlife; not just the commercial species - the bear, the bison, the beaver, the

caribou - but to collect the insects and flowers and grasses, because he saw that as a national security issue. He thought that if we are to know ourselves as a people, if we are to know what our national destiny was to be, we have to know as much as possible about the nature out of which we were derived."

On Lincoln: "He would put birds back in their nests and move snakes out of the road; he said, 'Their lives are as sweet to them as ours are to us.'"

On Franklin Delano Roosevelt: "When you visit FDR's house in Hyde Park, the first thing you can see when you go through the foyer is floor-to-ceiling glass display cases . . . and in those cases are not his war memorabilia or his political iconography or photographs of him at Yalta with Stalin; there is his bird collection, one of the finest ornithological collections in New York state."

America's artistic heritage - particularly the Hudson River School and Western art - also reflects our predecessors' appreciation

of wild lands, Kennedy said. "There are other national schools of art that have painted nature," said Kennedy. "The British have their still lifes, the French and the Italians have their gardens and agrarian scenes. But that's nature tamed. Our artists chose to paint nature in its wildest state, because they saw that as the way to capture the American soul."

In a speech filled with references to beleaguered animals, from starfish to spotted owls to snail darters to the American peregrine falcon, Kennedy stressed that nature should be preserved "not for nature's sake, but because it enriches us . . . if we destroy [nature], we will be diminished and our children will be impoverished."

"We are not preserving those northern forests, as Rush Limbaugh would argue, for the sake of a spotted owl," Kennedy said. "We are preserving those forests because we believe they have more value to humanity standing than they would have if we cut them down."

Grad researchers tell state lawmakers what attracts businesses

By Blaine P. Friedlander Jr.

Local and state government officials are learning that factors such as skilled labor, strong infrastructure and good schools offer more incentive for businesses to start up or relocate to New York than do tax subsidies, according to a Cornell report by graduate researchers.

The report was delivered to state legislators in Albany on May 29.

"Many recognize and accept the evidence that tax abatement subsidies to individual firms do not significantly impact firm decisions to relocate or expand," according to the report. Those jurisdictions "know that tax losses can starve states and communities of the resources needed to provide the services that underpin a strong economy," the report continues.

State Assemblyman Martin A. Luster (D-Ithaca) invited the researchers to present their results to the New York State Assembly and Senate. The report will be published this fall by Cornell's Community and Rural Development Institute (CaRDI).

The Economic Development Alternatives Project is a Cornell graduate level seminar in the City and Regional Planning Department on state economic development policy. The project team, all Cornell graduate students, includes: Martha Armstrong, Antonio Casal, Thomas Clavel, Todd Cornett, David Dornisch, Ann Marie Grifflin, Jill Lemke, Valerie Rutstein and Yaver Sayyed. Armstrong, Sayyed and Rutstein presented the report.

Richard Rising, director of planning and economic development for Geneva, N.Y., joined Susan Christopherson, Cornell associate professor of city and regional planning, to present their comments on the

report to state lawmakers.

Knowing that local and state officials face a serious challenge in promoting economic development, the research team sought out and evaluated local strategies that could be implemented throughout the state.

First, the team suggests a comprehensive evaluation and investment in the state's infrastructure. The report says that such investment not only increases the capital base but stimulates private capital investment, increases direct employment, improves productivity and stabilizes the local economy.

"New York state can no longer afford indiscriminate infrastructure spending. A state level economic development policy can provide a framework for prioritizing investments," according to the report.

Next, the state needs to focus on developing the small and medium-size business sector, the report advises. Smaller firms draw on entrepreneurial talent and technical skills. In fact, clusters of interdependent smaller firms are more likely to circulate money and have a multiplier effect in the local economy and are less likely to leave the area for lower-wage regions, the report points out.

The research team suggests that local economic development agencies can use revolving loan funds, business incubators and technical assistance programs to meet these needs.

Examples include:

- The Erie County Industrial Development Agency. In seven years, Erie County's loan fund has resulted in the creation of 7,000 jobs.

- The Geneva Industrial Incubator, which has provided the crucial start-up infrastructure for smaller businesses.

- The Farming Alternatives Program at Cornell, which supports upstate New York's agricultural industry by providing technical and marketing assistance to regional associations of farmers.

Improving work-force skills is a third alternative development strategy. The report notes that training programs, coupled with economic development, tend to be fragmented. With private and public collaboration in work-force preparation, both employers and workers can benefit, the researchers say.

The report cites the South Bronx Overall Development Corporation (SOBRO) as an example of how building work-force skills can foster economic self-sufficiency. Since 1993, SOBRO has assisted 10 businesses and created more than 102 jobs in one of the state's most economically depressed areas. The financial and technical assistance SOBRO provides to local companies enables them to expand and stabilize.

Researchers emphasize that cooperation to develop efficient economic programs may be a wise political course. They also say that using conventional economic development and government agencies could achieve new ends. The report also suggests that state leadership could streamline the organization and transfer of information. Finally, these strategies could bring broad, improved social and economic diversity to the state, the researchers say.

"The strategies described [here] address different aspects of the economic development problem, but they have some important premises in common - premises which differentiate them from the competitive, smoke-stack-chasing strategies which have dominated economic development policy," the report concludes.

Commencement has its personal moments, too

By Blaine P. Friedlander Jr.

Every year, commencement ceremonies present a colorful spectacle and, amid the crowds, personal moments, too. Here are a few from this year:

The secret codes between graduating seniors and their proud families don't have to be complicated. Jason Schwartz, who graduated with a bachelor's degree from the College of Arts and Sciences, placed a big "6" on his mortarboard so his family could spot him in the sea of graduates in Schoellkopf Field. Appropriately, his family held a "6" poster so Jason would have no problem finding them.

But why a "6"? It turns out Jason interned last summer at WPVI-TV, channel 6, an ABC affiliate in Philadelphia. His brother Randy, of Nepal and Cherry Hill, N.J., had no shortage of quips while waiting for the ceremony to begin: "We wanted to put two more 6s on (Jason's) mortarboard, but figured people would get scared," Randy said.

Jason will begin working toward a master's degree at the Medill School of Journalism, Northwestern University, Evanston, Ill., this fall.

Lining up on the Arts Quad for the procession march into Schoellkopf Field, Diana Wong showed her Hawaiian pride. The civil engineering graduate was co-president of the Cornell Hawaii Club, which shares the culture and traditions of the islands with the Cornell community. Her cap and gown were decorated with ornamental and colorful leis, with flowers including pua keni keni, pakalana, plumeria, orchid, mai le and topped off by a haku headband.

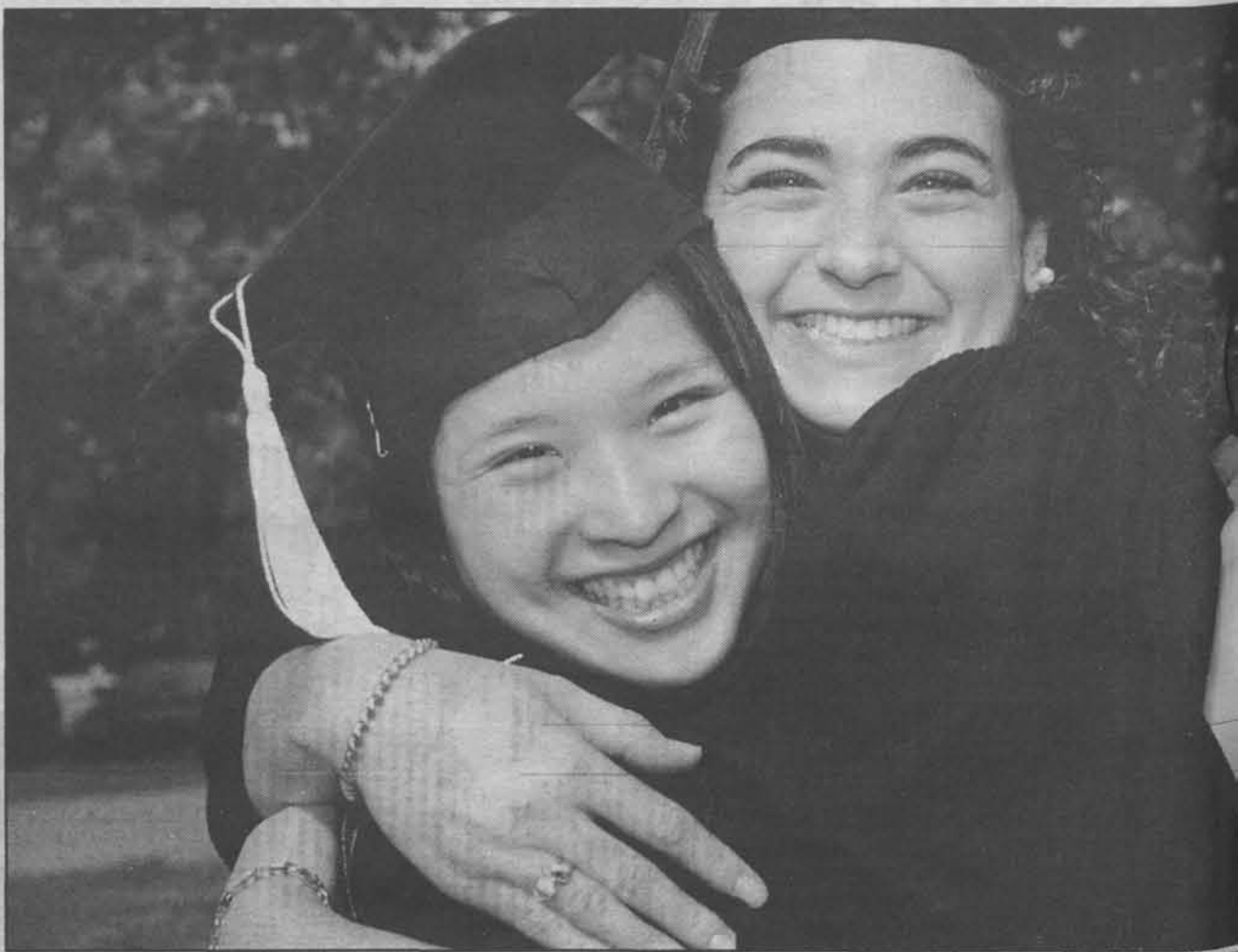
Catherine S. Montet, who earned her master's degree in international nutrition, and will begin work toward a doctorate in August, was escorted to the Schoellkopf ceremony by two Masai warriors in full traditional garb. Montet, who also wore traditional clothing, was accompanied by Mpeti Ole Surum and Ole Kamuaro, her uncle.

Ole Surum patiently explained to onlookers the markings on his body and the relevance of the warrior gear: "This means I have killed two lions," he said, pointing to marks on his arm.

Ole Surum spends half of the year in Kenya and half in Massachusetts, giving cultural lectures to elementary and middle school children. He sees a big difference between American culture and that of his homeland, he said. Here, there is a loss of respect for elders, while in Kenya, elders command the most respect. "It does take a village," he said.

At Senior Convocation on Saturday in Bailey Hall, senior class officers Esther H. Kang and Bill Mack presented the university with a check for \$45,708, which comprised donations from 1,017 seniors. It represented the largest number of seniors ever to contribute to a class gift.

Among the estimated crowd of 32,000 at commencement, there was one brand new veterinarian whose name most people in attendance kept their eyes on. Immediately after President Rawlings conferred the College of Veterinary Medicine degrees, a small plane began circling the stadium, towing a banner with the message "Carole Werkhoven, DVM, you did it."



Before the commencement procession to Schoellkopf Field, Kim Nguyen, left, shares a hug with fellow Arts and Sciences graduate Kathleen O'Halloran on the Arts Quad.



Catherine S. Montet, left, a master's graduate in nutritional sciences, Mpeti Ole Surum and Montet's uncle Ole Kamuaro, right, wore traditional garb from Kenya at commencement.



Vanessa Annibali, a graduate student in nutritional sciences, shares the pleasure of her graduation with her daughter Maya.



The Cornell Big Red Bears greet graduates Sunday, degrees were conferred on seniors.

Commencement 1996 snapshots



Graduates Goro Sulijoadikusumo, left, and Christopher Taylor celebrate commencement day. Both received M.S. degrees in civil and environmental engineering.

Frank DiMeo/University Photography



Robert Barker/University Photography

es, including Ashish Malhotra, MBA '96, right, on the Arts Quad during the forming of the graduation procession. On e 6,000 graduates during commencement ceremonies on a clear day in Schoellkopf Field.

Rawlings continued from page 1

will adapt to the changing environment they confront, which is a prerequisite for survival, but they will still provide teaching, research and public service of the highest quality. And they will retain certain core values which are essential to their strength. These core values have been the foundation of your Cornell education, and they will continue to serve you, and the university, well."

Rawlings pointed to three core values: "The first is intellectual honesty, that is respect for the evidence. Intellectual honesty is what enables you to entertain ideas which are foreign to you or with which you disagree. It is because intellectual honesty is so fundamental to the university that academic freedom is something we fight vigorously to preserve. Informed by their own research and scholarship, for which we demand an objective and rigorous accounting, we give faculty the right and the responsibility to seek their own areas of intellectual interest, no matter how controversial. In return, we expect that all members of this intellectual community, faculty and students alike, will be willing to ask the hard questions, to examine assumptions, to scrutinize data, to think critically about what is discovered in an effort, not simply to support one's own position, but to move closer to the truth. Cornell has given you the skills – and, I hope, the desire – to do that, for intellectual honesty has application far beyond Cornell."

"The second core value of the university is respect for other people and their points of view. For all their diversity, institutions like Cornell can and also must play a unifying role. Drawing on the breadth of backgrounds and experiences found among its individual members, a university is also a place to shelter debate, to encourage dialogue and to explore the potential of diversity to both enrich and reinforce community. Voltaire is often quoted as having said, 'I disapprove of what you say, but I will defend to the death your right to say it.' Too often our current debates – political and social – are framed in terms of winners and losers rather than a need to find a common ground...."

"The third core value is the desire to keep on learning. You've probably heard the old truism that half of what you've learned will be obsolete in five years – but you don't know which half. Most of us could not have predicted five years ago that people would be surfing the Net to find everything from Chinese take-out restaurants to the latest economic data on Latin America. The Web has become as much a part of the culture of higher education as the slide rule was in the 40s, 50s and 60s or the hand-held calculator was a decade or two ago – and most of you have jumped into the newest technology with great gusto. Much more gusto than I have mustered."

"But it is a constant challenge – for students and graduates alike – to think deeply about ideas. Deep thinking is hard, and it's not much fun. Most of us would rather watch TV. As a result many of us become fixed in our positions early in life and we hold those positions for 30 or 40 years. Or we become paralyzed into inaction by the sheer volume of information we must somehow absorb...."

"Without deep thinking, we are in danger of drowning in the sea of hyperinformation. With it, we have the prospect, at least, of navigating through the ever-roiling waters toward a distant shore of promise and hope. One of the most important things a university can do is to give students the desire to keep on thinking deeply and learning eagerly throughout their lives. I hope Cornell has done that for you."

A full text of Rawlings' speech can be found on the World Wide Web at <http://www.news.cornell.edu/gradspeech96.html>.

Faculty will pull the plow for new Mann addition

Forget about golden shovels, this is the ultimate in plowshares: To break ground on the new addition to the Albert R. Mann Library at 9:30 a.m. Friday, about a dozen Cornell faculty members will be harnessed together and will pull the plow used by Liberty Hyde Bailey, former dean of agriculture.

For this particular plow, breaking new ground is not new. On May 1, 1905, the plow was used to mark out the foundation of the original Roberts Hall. The plow is a 1900 stubble model built by the Syracuse Chilled Plow Co., which later merged with John Deere and Co. On that groundbreaking in 1905, Bailey and about 100 students pulled the plow, designed for horses.

Bailey was dean from 1903 until 1913, and he is considered the architect of today's modern agriculture college. He lobbied successfully to obtain state support for the college which became the New York State College of Agriculture at Cornell on May 12, 1904.

Albert R. Mann's contributions to the university were no less important: He was dean of the College of Agriculture from 1917 until 1931. He had previously served as Bailey's personal secretary and helped prepare the landmark, four-volume *Cyclopedia of American Horticulture*. He also was director of the Extension Service and the Agricultural Experiment Station in Ithaca.

Mann Library houses the volumes that belong to the College of Agriculture and Life Sciences as well as the College of Human Ecology. The cost of the new addition—a product of the State University Construction Fund (SUCF)—is about \$16.7 million, and it is expected to be completed by 1999. The library will gain about 75,000 square feet of usable space, as well as an upgrade in its climate control, fire protection and general technical infrastructure.

Voiland is named to post at Vet school

Bonita S. Voiland, an executive at Crouse Irving Memorial Hospital in Syracuse, has been named assistant dean for resources, marketing, development and public affairs at Cornell's College of Veterinary Medicine effective July 1.

Announcing the appointment, Dean Franklin M. Loew said, "Ms. Voiland has the skills, experience and understanding to help raise the college's public profile. She knows how to reach those we seek to help as well as those in a position to assist us in our mission and to help identify new sources of private philanthropy. Assistant Dean Voiland will be a key member of the Cornell Veterinary Medicine team for the 21st Century."



Voiland

Voiland has been an executive at the Syracuse hospital since 1988, serving first as assistant vice president for communications and then as director of human resources. From 1981 to 1987 she was public relations director at Park Ridge Health System in Rochester, N.Y. Before that she served as assistant public relations director for the Rochester-Monroe County Red Cross. She holds B.S. and M.S. degrees from the State University of New York at Albany and a Graduate Certificate from Cornell's School of Industrial and Labor Relations.

"I look forward to the challenge of communicating the excellence of America's premier veterinary medical college," Voiland said. "This college has unsurpassed strengths in the fields of animal health, public health, biomedical research and education, and the world needs to know about these resources as public funding of science and research declines."



A view of the new Veterinary Medical Center at the College of Veterinary Medicine, scheduled to be dedicated Friday.

Veterinary Medical Center to be dedicated Friday

By Roger Segelken

Dedication ceremonies set to begin at 1:30 p.m. Friday, June 7, will mark the official opening of the new Veterinary Medical Center at Cornell's College of Veterinary Medicine.

The five-story facility, under construction since 1994 with \$54 million in funding from New York state, houses three animal hospitals, four academic departments and parts of two veterinary service units: the Companion Animal Hospital, the Farm Animal Hospital and the Equine Hospital; the departments of Microbiology and Immunology, Pharmacology, Clinical Sciences, and Pathology; as well as some facilities for the Diagnostic Laboratory and Laboratory Animal Services.

The Veterinary Medical Center is the second in a three-phase, \$90-million construction and renovation project, the largest of its kind ever undertaken for the State University of New York. The first, the Veterinary Education Center, was

completed in 1993. Beginning this year, refurbishing of Schurman Hall for faculty and administration office spaces and conversion of the former animal hospital to instructional facilities ultimately will increase the college's usable space by 70 percent.

Officials from Cornell, the State University of New York, the New York State Legislature and veterinary professional societies will speak at the dedication, which will be conducted under a tent to the east of the new center. Among those scheduled to speak are: Hunter Rawlings, Cornell president; Franklin M. Loew, dean of the College of Veterinary Medicine; State Sen. James Seward and State Assemblyman Martin Luster; MacDonald Holmes, president of the New York State Veterinary Medical Society; Irving Freedman, SUNY vice chancellor for capital facilities; and Mara DiGrazia, D.V.M. '96, past president of the Cornell Student Chapter of the American Veterinary Medical Association.

In an executive citation prepared for

delivery at the dedication, New York Gov. George E. Pataki said: "This world-class research institution is important to its students, people who care for companion animals, farmers, the horse racing industry, the veterinary profession and the pharmaceutical and biotechnology industries."

Animals also will, appropriately, have a role in the dedication: Distinguished guests and participants will be escorted to their seats by trained guide dogs and police dogs.

The state College of Veterinary Medicine at Cornell is one of 27 veterinary schools in the United States and one of only three in the Northeast. Since 1896, the college has graduated more than 4,200 veterinarians.

When Cornell University opened in 1868, it was the first American university to include a professor of veterinary medicine on the faculty. In 1876, Cornell was the first university in the United States to award a D.V.M. degree (to Daniel E. Salmon, who later identified the infectious pathogen salmonella). The College of Veterinary Medicine was established by an act of the state Legislature in 1894, and the college officially opened in the fall of 1896.

Music Men



Charles Harrington/University Photography

Edward Murray, left, and David Borden, both members of the Cornell music faculty, will perform a two-piano jazz concert Saturday, June 8, at 8:15 p.m. in Barnes Hall. The public event is free. A live recording of the duo's most recent concert, "Night and Day," performed Sept. 23, 1995, at Barnes Hall, is now available on compact disc from Lameduck Music.

CU Plantations tour available on new video

It's no substitute for roaming the leafy byways, intriguing gardens and spectacular gorges in one of America's most beautiful college campuses.

Rather, the new video presentation *A Journey Through Time and Nature: Cornell Plantations Path* adds a fourth dimension, as archival film footage summons scholarly ghosts to join the modern-day walker through a living museum of natural history at Cornell.

A supplement to the book *Cornell Plantations Path Guide*, the VHS videotape is sold for \$24.95 or, together with the guidebook, for \$33.90. The seven-mile Cornell Plantations Path, which opened in 1994, is a series of interconnected, interpreted trails that link historic downtown Ithaca with the university's academic campus, gardens and natural areas.

"If you're getting ready to walk Plantations Path, this video gives a great preview," said Plantations Director Donald Rakow. "After your visit, you can take home a souvenir." Production of the video was made possible, Rakow noted, by a gift from two alumni friends of Cornell Plantations, Maralyn Winsor Fleming and D. Wayne Fleming, Class of 1945.

CORNELL RESEARCH

New approach to fusion energy is focus of two Cornell projects

By Larry Bernard

A new, essentially inexhaustible source of energy for the 21st century may result from experiments under way at Cornell's Laboratory for Plasma Studies.

Fossil fuels? Forget it. They're a limited resource and pollute when burned. Nuclear fission reactors? Not in my backyard. Too dangerously radioactive. How about creating energy from fusion, the way the sun does?

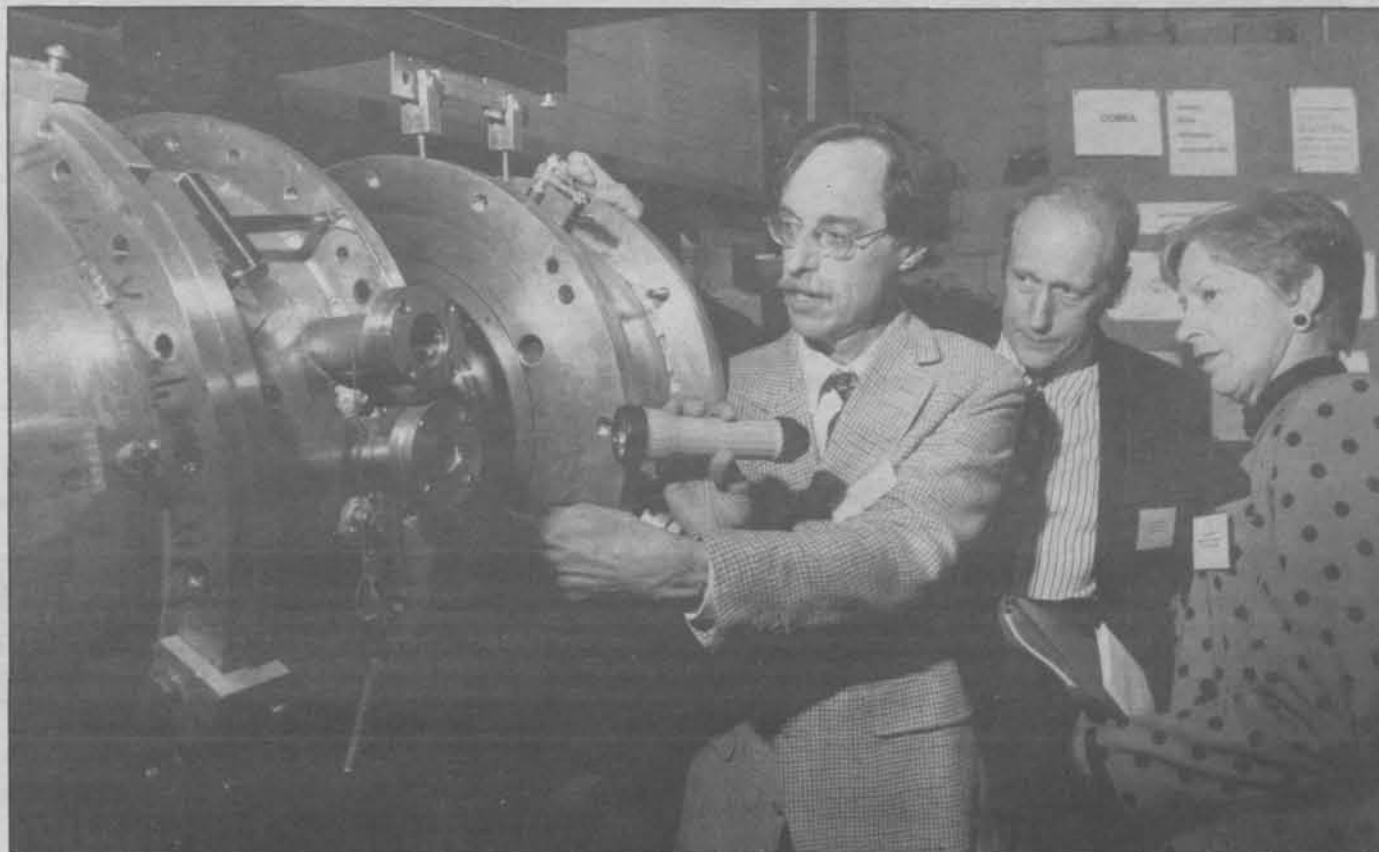
"The problem of nuclear fusion is very important to society," said Cornell's Ravi Sudan, the IBM Professor of Engineering, professor of electrical engineering and of applied and engineering physics and a principal investigator on both the COBRA and FIREX projects. "We must have alternate energy sources. We must have technical options," he said.

There are two approaches to using controlled nuclear fusion for energy production: magnetic fusion and inertial fusion. In the magnetic approach, the hot plasma that generates the fusion reactions is confined by magnetic fields. The mainline approach for achieving magnetic fusion is the Tokamak program. In inertial fusion, tiny fuel capsules or pellets are compressed to 1,000 times liquid deuterium densities and heated to fusion ignition by pulsed, high-powered beams. Because the whole process should take place in only a few nanoseconds, the hot, dense plasma stays together because of its inertia. The mainline approach to inertial fusion uses laser beam drivers.

Cornell's experiments concern alternate approaches to both the mainline magnetic and inertial fusion approaches:

- FIREX, the Field-reversed Ion Ring Experiment, is a Cornell project funded by the U.S. Department of Energy's Fusion Energy Science Program for \$2 million over four years. The experiment is designed to create an intense ion ring in a single pulse. The fields of this ring should confine plasma in a new magnetic "bottle."

- COBRA, the Cornell Beam Research Accelerator, is a new 4-megavolt research accelerator, designed and provided to Cornell by DOE's Sandia National Laboratories. The experiments on this accelerator will investigate the advantages of replacing the mainline laser beam drivers in the inertial confinement program with



Charles Harrington/University Photography

John B. Greenly, left, senior research associate in the Laboratory of Plasma Studies at Cornell, points out features of the Cornell Beam and Research Accelerator (COBRA) to David Crandall, project director of the National Ignition Facility, U.S. Department of Energy, and Anne Davies, director of the Office of Fusion Energy for the Department of Energy, after a symposium on fusion and plasma research held on campus May 7.

ion beams. Single-pulse, intense ion beams will be focused onto a target to determine if the power density required for pellet ignition can be achieved. This project is funded for \$3 million over five years by DOE through Sandia.

Both these projects utilize the technology of intense ion beams generated in diodes that were developed at Cornell. Sudan and Stanley Humphries, former research associate in the Laboratory of Plasma Studies, hold the first patent on this technology.

Bruce R. Kusse, professor of applied and engineering physics and director of the Laboratory of Plasma Studies, said the general public is not very concerned about finding non-fossil fuel energy sources even though the basic research required to come up with them has to be done well in advance.

"The general public interest has waned

because the prices for coal, oil and natural gas are not that bad. But the supplies of these fossil fuels have finite lifetimes," Kusse said. "If we wait until they are exhausted to develop new sources, we will be in trouble."

Early in the next century, scientists anticipate achieving inertial fusion ignition at the National Ignition Facility (NIF). The NIF will focus the energy from an extremely powerful laser to "ignite" small capsules filled with fusion fuel, creating fusion reactions and liberating more energy than was used to start the process. David Crandall, NIF project director, described the program at the meeting here. The NIF will cost \$1.1 billion dollars and take seven years to build.

The magnetic fusion program, has focused on the Tokamak approach, with the next step a \$10 billion international program known as the International Thermo-

nuclear Experimental Reactor (ITER). It is in the design phase and may result in an internationally constructed and operated Tokamak reactor.

The advantages of using fusion energy sources are that the fuel is cheap and plentiful and the reactors will present less of a radiation hazard than the current fission power plants.

"While the fuel for a fusion reactor is cheap, the mainline approaches are leading to large, complicated and, therefore, expensive reactor designs," Kusse said. "This is why it is important to investigate alternative fusion schemes that can result in more compact power plants."

"Our experiments are aimed toward the long term, for the next phase after the NIF is finished," Sudan said. Initial experiments on COBRA will look at the transport and focusing of intense ion beams.

Study: 'Nuisance-barking' dogs respond best to citronella spray collars

By Roger Segelken

When it comes to calming "nuisance-barking" dogs, a spritz of fragrance under the chin is more effective than electric shock, a test by the Animal Behavior Clinic at Cornell's College of Veterinary Medicine has found.

Dog owners who tried both types of anti-barking collars preferred citronella spray over shock for their pets, according to a report in the *Journal of the American Animal Hospital Association* (May-June 1996, Vol. 32).

"Either type of collar can be a supplement or an alternative to behavior modification. The dog owners who tested these collars for our study felt the citronella spray was more effective and more humane than electric shock," said Soraya V. Juarbe-Díaz, D.V.M., a resident in the Cornell Animal Behavior Clinic who ran the study with volunteer dog owners.

Nuisance-barking dogs sound off for no particular reason. "Many dogs bark when they hear other dogs barking," said Katherine A. Houpt, V.M.D., director of the Animal Behavior Clinic. "And there are certainly times when we want a dog to bark to alert us of something we should know about. But nuisance barkers may bark just because they are highly territorial or because barking is a learned, attention-seeking behavior."

Nuisance, inappropriate or excessive barking make

up between 13 and 35 percent of behavior-problem complaints by dog owners, Houpt noted. "Nuisance barking may be manageable with behavior modification, but some owners are unwilling or unable to provide consistent, appropriate corrections," she said. "Or the barking may occur when the owners are not around, so they can't deliver corrections when the misbehavior occurs."

So the animal-behavior experts recruited dog owners from the Ithaca area through newspaper articles and radio news stories about their research. They selected nine dogs that exhibited true nuisance barking and provided electric shock and citronella spray collars for two-week trials of each type.

The electric collars deliver an irritating shock of adjustable intensity when a vibration sensor in the collar detects barking. The citronella collar releases a spray of the plant-based fragrance when a microphone in the collar senses barking. The citronella collars were first marketed in the United States in 1995, although they have been available for years in most European countries, where shock collars are illegal for use on pets. Dogs in the collar test included a Shetland sheep dog, beagle, bull mastiff, two shepherd mixes, a cocker spaniel, West Highland white terrier, Labrador retriever and a Doberman pinscher.

For the eight dogs that wore both types of collars (one

shepherd mix did not complete the study), all owners found the citronella collar to be effective in reducing or stopping nuisance barking and most preferred the fragrance spray. (The owner of the Doberman pinscher said both types worked, but preferred to use the electric shock collar.) Four out of eight owners said electric shocks had no effect on their dogs — they kept on barking.

"Given the dog's sense of smell, it could be that a strange odor may be less tolerated than a presumably painful stimulus," the veterinarians speculated in the journal article. Once dogs learn that barking results in a fragrance spray, a placebo or "dummy" collar may be substituted in some cases and work just as well, they added.

The citronella collars were not without problems, Juarbe-Díaz noted. Unless the microphone's sensitivity is properly adjusted, it picks up sounds of other dogs barking, "and that's not fair to your pet. Punishment for misbehavior must not occur at random; the dog needs to know why it's being punished," she said.

And one dog owner complained that citronella oil stained the upholstery when the couch-potato pooch barked. But no one complained of the oil's smell, Juarbe-Díaz said.

"One owner thought the scent was preferable to her dog's body odor."

Six to receive annual Rhodes Exemplary Alumni Service Award

Six distinguished Cornell alumni have been selected to receive the second annual Frank H.T. Rhodes Exemplary Alumni Service Award, which recognizes their outstanding service to Cornell volunteer activities.

The 1996 recipients of the award, established in 1994 in the name of President Emeritus Frank H.T. Rhodes, are Esther Schiff Bondareff '37, Richard W. Brown '49, Fred J. Eydt '52, Margaret G. Graf, J.D. '73, Eli Manchester, Jr. '52 and Ernest L. Stern '56. The award winners, all of whom have been extremely active in their clubs, classes, schools and colleges since graduation, will be recognized at a reception and dinner on Saturday, Sept. 21, during this year's Homecoming Weekend.

Esther Bondareff is a retired partner of Bon Foods Inc. and a past president of the Dreher Park Zoo in West Palm Beach, Fla. Her alumni activities include being University Council life member and the first woman president of the Cornell Club of Washington. She is also the founder and president of the Women's Continuing Reunion Club. She has been a Cornell Campaign Council member and currently is vice president of the Cornell Club of Eastern Florida. In 1986 Bondareff received the Outstanding Alumni Award from the College of Agriculture and Life Sciences.

Richard (Dick) Brown is retired as vice president and assistant to the chairman of Banfi Vintners. He is a consultant to Banfi Vintners, ECOLAB and Cayuga Hospitality Advisors. A life member of the University Council and vice president of the Class of '49, Brown received the "Hotelier of the Year" Award from the New York City chapter of the Cornell Society of Hotelmen. He was vice-chairman of the Cornell Hotel School Leadership Campaign from 1984 to 1989. And he is a former president of the Cornell Alumni Association, the Cornell Society of Hotelmen and the Class of '49.

Fred Eydt, president and chief executive officer of Medallion Hotels, Inc. in New York City, is an emeritus trustee and a former Board of Trustees Fellow. He also is a former member of the University Council and its administrative



Bondareff



Brown



Eydt



Graf



Manchester



Stern

board, and he is a member emeritus of the Athletic Alumni Advisory Council. Eydt is chairman of the Cornell Club of New York's board of directors and chairman of the Reis Tennis Center Committee, and he served as co-chairman of the Hotel School Campaign Committee. He also has served as president of the Class of '52 and is a member of the Class of '52 Reunion Special Gifts Committee. In 1984 he was inducted into the Cornell Athletic Hall of Fame.

Margaret Graf is an attorney and partner in the Los Angeles office of the McDermott, Will and Emery law firm. She is a life member of the University Council and has served as its chair and vice chair and as a member of its administrative board. She is a charter member of the President's Council of Cornell Women and is chair of its University Relations Committee. She is active in the Cornell Campaign and is a national phonathon chair for the Cornell Fund. Graf has been the chair and a member of the Human Ecology Advisory Council and is a member of the Law School Advisory Council.

Eli Manchester is president, chief executive officer and a director of Kewaunee Scientific Corporation in Statesville, N.C. He is an emeritus trustee and past chair of the board's Subcommittee on Alumni Affairs. He is a life member of the Cornell Council, having served as its chair. He founded and was the first chair of the Council's Committee on Admissions. He is a director emeritus and former president of the Cornell Society of Engineers. In the early '80s, he served on

a major task force that resulted in a new direction for the Graduate School of Business Administration and, more recently, on another task force that studied the overall direction and organization of Cornell's various alumni organizations. He was the Class of '52's 40th Reunion Campaign chair and serves in a similar capacity for the class's upcoming 45th reunion. He currently is a member of the advisory councils of the Johnson Graduate School of Management and the Cornell Men's Glee Club.

Ernest (Ernie) Stern is chairman and chief executive officer of Thomson Components and Tubes Corporation, a subsidiary of Thomson-CSF, the large French electronics group, in Totowa, N.J. Stern is a former member of the University Council and of its administrative board. He is a non-trustee member of the Board of Trustees' Committee on Alumni Affairs and Development, and he has served as chair of the New York City Campaign Committee. He is Class of '56 president and has served as 35th Reunion Campaign chair and/or co-chair for its 25th, 30th, 35th and 40th reunions. The Class of '56 has honored him by endowing the Ernest L. Stern '56 Library Curatorship for Asia Collections. He was instrumental in the development of the Cornell Association of Class Officers and was a long-time director and member of its board. He is a co-founder and advisory board member of Cornell's Adult University.

If you would like to attend the dinner for this year's honorees, call (607) 255-2390.

Two alumnae are tackling the tough questions about breast cancer

By Roger Segelken

"Why is this happening to me?" is frequently the breast cancer victim's first question. Then, "What will this mean for my daughters? Does breast cancer run in our family? Have we been exposed to some carcinogen?"

According to two alumnae who approach the breast cancer problem from different directions, the most frustrating question often is: "How do I make sense of all the

conflicting information about the causes of breast cancer?"



Senie

Ruby T. Senie, a 1957 graduate of the College of Human Ecology, and Suzanne M. Snedeker, a 1978 HumEc graduate, are trying to help people concerned with breast cancer — the medical community as well as the general public — make sense of it all.



Snedeker

Senie, an associate professor of clinical public health at Cornell University Medical College and associate attending epidemiologist with the Breast Service of Memorial Sloan-Kettering Cancer Center, is focusing on research and communicating findings to the public. She is an epidemiologist involved with the Long Island Breast Cancer Study Project, which is addressing concerns of some citizens who fear that chemical pesticides in the environment are responsible for "clusters" of breast cancer in that suburban area. She also is developing the Metropolitan New York Registry of Breast Cancer Families, while working on two epidemiological research questions: Does subsequent pregnancy influence breast cancer survival? And can soy dietary supplements reduce menopausal symptoms in women at increased risk of breast cancer?

Snedeker, an adjunct assistant professor of toxicology in the Institute of Comparative and Environmental Toxicology at Cornell's Center for the Environment, is a project leader of the new Program on Breast Cancer and Environmental Risk Factors in New

Web site has information on environmental risk factors

Scientifically based information on the relationship of environmental factors, including pesticides and diet, and the risk of breast cancer is easily accessible on the World Wide Web page operated by the Cornell University Program on Breast Cancer and Environmental Risk Factors (BCERF). The site can be accessed at <http://www.cfe.cornell.edu/bcerf/>.

In addition to maps of breast-cancer

incidence and a report on the California Pesticide Full Use Reporting System, the site offers links to related sites. Among them are national toxicology databases, pesticide information profiles, National Cancer Institute (NCI) statistics, summaries of studies now underway and NCI facts about the BRAC-1 gene, which has been found to be altered in certain families with high risk of inherited breast cancer.

those studies wouldn't be scientifically valid if women self-selected to participate," Senie noted. "However, families are invited to participate in the registry. Volunteers will be asked to provide biologic specimens and exposure information, and relatives from several generations will be asked to join."

The family registry will help medical science understand the link between inheritance and environmental exposures in breast cancer risk, Senie said. Other family-related patterns may also be identified. Some of

those patterns are environmental, such as exposures in the home or community and diet during childhood. Other suspected risk factors, including cyclical hormone levels and obesity, may contribute to breast cancer in families, while some risk factors may be cultural,

such as age at first birth. Perhaps because there's little we can do about the genes we inherit, people direct their energy to environmental risk factors, said Senie, whose family will be included in the registry. She grew up on Long Island, in a family with a history of breast cancer and understands Long Island women who worry about chemicals that make the lawns and golf courses so lush, green and disease-free.

"It's true, the rate of breast cancer mortality is high on Long Island, and we don't know why," Senie said. "Women of Long Island feel they are sitting on dynamite.

But they are not alone."

Just how not-alone women with breast cancer are and what's being done about it can be appreciated through the information resources that Snedeker's program is developing. Data, such as the county-by-county incidence of breast cancer in New York state, were not easily accessible to the general public until the Program on Breast Cancer and Environmental Risk Factors (BCERF) began.

To reach the widest possible constituency, information in the environmental risk factor database will be posted on a World Wide Web site <http://www.cfe.cornell.edu/bcerf/> and the program also plans publications and educational presentations.

"For consumers, it is often very difficult to get good, sound, science-based information on the role of environmental risk factors and breast cancer," Snedeker said. "To address this important need, our database will evaluate the most recent scientific data on this subject and translate the data into usable information." Certain pesticides and dietary factors will be the first to be evaluated for the database, she noted.

Advocacy groups, consumers, public-policy makers, legislators and those in the public-health field make up the audience for the database, which is translated to understandable language. A more technical version will be available to scientists.

After Cornell, Snedeker earned a Ph.D. in nutrition at the University of Wisconsin and completed post-doctoral training in reproductive toxicology and mammary gland biology at the National Institute of Environmental Health Sciences. Before joining the BCERF program in 1995, she served as project officer in the National Toxicology Program's Reproductive Toxicology Group, designing studies to evaluate the effects of long-term exposure to environmental estrogens on reproduction and development of breast cancer and other cancers.

The results of studies like the ones that Senie and others are conducting across the United States and around the world will be available — with help interpreting them — on the BCERF data base, Snedeker said. "Some of these studies appear to be equivocal and even contradictory," she warned. "It's up to us to help the public understand what the results mean and even what some of the contradictions tell us."

'For consumers, it is often very difficult to get good, sound, science-based information on the role of environmental risk factors and breast cancer.'

—Suzanne Snedeker

Lee Teng-hui's Olin Lecture at Reunion '95 catalyzed historic events

By Linda Grace-Kobas

"Today, the Chinese people enter a new frontier full of hope....We now stand on the apex of democratic reform and will remain there resolutely....We have effectively expanded the influence of the international democratic camp and made significant contributions to the cause of freedom and democracy."



Rhodes

With these words in his inaugural address on May 20, Taiwan President Lee Teng-hui, Ph.D. '68, embarked on his new role as the first popularly elected president in 5,000 years of Chinese history.

Lee's triumph came almost a year after his historic Olin Lecture delivered June 9 at Cornell's 1995 Reunion. That visit, which caused a diplomatic uproar when the government of the People's Republic of China furiously protested the Clinton administration's granting of a visa to Lee to attend his alma mater's alumni gathering, brought him into the world spotlight. The Cornell visit drew 400 international journalists to campus for coverage, and it has since been cited in hundreds of news articles as the beginning of a new phase of Lee's leadership. Network television news programs, in covering Taiwan-China relations since, often run the footage of a smiling Frank H.T. Rhodes introducing Lee to a cheering crowd of Cornellians in Newman Arena.

President Emeritus Rhodes, with his wife Rosa, represented Cornell at Lee's inauguration, also meeting with alumni from Taiwan and the Philippines and presenting an address at a symposium at Cheng Kung University in Tainan.

"It was quite astonishing," Rhodes said of his visit. "I would walk down a street or in the hotel lobby in Taipei and complete strangers would come up to me and thank me for Lee's visit to Cornell; they recognized me from TV. It's amazing how much emphasis the people in Taiwan place on the visit."

Rhodes met personally with Lee in the formal receiving line at the inaugural reception and he and Rosa were able to speak with President and Mrs. Lee at the state dinner afterward. Representing the U.S. was a delegation, headed by Vernon Jordan, which included a dozen members of Congress and UC-Berkeley Chancellor Tien Chang-lin, a Taiwan native. Syracuse Mayor Roy Bernardi, who welcomed Lee on his arrival for his Cornell visit, led a small group, also.

Rhodes said attending Lee's inauguration was "terrific."



Taiwan President Lee Teng-hui acknowledges the crowd during inauguration ceremonies in Taipei on May 20.

"There was a sense of joy, celebration and achievement," he recounted. "When you think of what went into that election—the belligerent behavior of the People's Republic of China (PRC) government and the noisy opposition—it was a hard-fought contest. Once the result was announced, however, the people were very pleased that there was not a single act of violence or challenge to the outcome. It was quite remarkable."

Rhodes said he will remember most "the very real sense of unity and purpose and confidence that the people of Taiwan feel. This nation of 22 million really pulled itself up by the bootstraps to become one of

of democracy with skill, courage and foresight.

"He is a remarkable man, a notable scholar," Rhodes added. "He single-handedly moved Taiwan from being a benevolent dictatorship to a democracy."

Lee has often spoken of the influence his years studying for his doctorate in agricultural economics at Cornell played in the development of his political philosophy and his efforts to bring democratic rule to the Chinese people. In his Olin Lecture, he said:

"My years at Cornell from 1965 to 1968 made an indelible impression on me. This was a time of social turbulence in the

'He is a remarkable man, a notable scholar. He single-handedly moved Taiwan from being a benevolent dictatorship to a democracy.'

—Frank H.T. Rhodes

the great economic powers of the world."

Lee's visit to Cornell in 1995 "gave him stature as a world leader and played an important role in his election," Rhodes said.

"President Lee just captured every group with whom he came into contact here," he added, saying Lee has spoken appreciatively of the warmth of his welcome at Cornell. "You could sense it in the crowds who greeted him on his arrival in Syracuse, on the campus when he arrived here, in the smaller gatherings. He charmed, delighted and won over people. There was genuine warmth of personal affection for a remarkable man who took a position of totalitarianism and turned it into a position

United States, with the civil rights movement and the Vietnam War protest. Yet, despite that turbulence, the American democratic system prevailed. It was also the time I first recognized that full democracy could engender ultimately peaceful change....I returned to my homeland determined to make my contribution toward achieving full democracy for our society."

Lee reiterated the importance of his Cornell years in an exclusive interview in the May 20 edition of *Newsweek*, when he was asked if America's social turmoil in the sixties shook his faith in democracy: "There was chaos but still democracy," he said. "I realized you must use democracy

to improve society....The majority used the democratic system to improve the social order. American people, Asian people, African people all need human rights. Some talk of Asian values. I say Asian people have rights just like in the United States."

Rhodes explained, "One view has been that Confucianism isn't consistent with democracy. President Lee has emphasized the absolute consistency of Chinese character with democracy. What he's doing now is setting the pace for the mainland, setting the road for all Chinese."

Western education has had a tremendous influence on Taiwan's development, Rhodes said, noting that in addition to Lee's Cornell degree, his vice president is a graduate of the University of Chicago and 18 of 32 cabinet members have Western doctorates, which may be a world record. The presence of Cornell in Taiwan is "really quite dramatic," Rhodes said, adding, "The younger people are really picking up and running with the ball. They will play a real role in the future of Taiwan."

Among the Taiwan alumni Rhodes met with were Bao-ji Chen, president of the Cornell Club of Taiwan, Hsiang-tang Ko, executive director of the Taipei City Planning Commission, Jennifer Huang, vice chair of Golden Securities, and Yih-chi Tan, professor at National Taiwan University, which has 45 Cornellians on its faculty.

To illustrate the enthusiasm of the Cornellians in Asia, Rhodes described a scene at a very formal reception during the inaugural celebrations when Renato Labadan Ph.D. '67, president of the Cornell Club of the Philippines, opened the jacket of his suit and pulled out a Cornell banner.

A delegation of 14 from the Philippine alumni club attended the inauguration ceremonies. That club, founded in 1912, has close ties with the Taiwan club. The delegation included, besides Labadan, Crispiniano G. Acosta, M.S. '87, Florentino Z. Vicente, M.S. '62, Felix H. Limcaoco Jr., M.S. '53, Charlie Yu Galan, M.S. '80, Margarita M. dela Paz Ph.D., '90, Eloisa D. Miranda, MBA '61, Ramon B. Cardenas, M.A. '67 and Lourdes M. Labrador, M.S. '56.

Lee has no immediate plans to revisit the United States. In his inaugural address, he offered to make a "journey of peace" to mainland China to open up a new era of cooperation, an offer the PRC has so far rebuffed.

Rhodes said he is "very proud of the fact that Cornell has had a role to play in preparing Lee" to take on the Taiwan presidency at age 73, and described his high regard for the man: "I have unlimited admiration for him. He is a marvelous statesman, an international leader of remarkable stature and importance, a person of remarkable depth and intelligence. I am grateful for the privilege of knowing him."

A lot of prep work—behind the scenes—makes a successful Reunion

By Jill Goetz

It's hard to imagine a Cornell Reunion that could match last year's for sheer logistics.

When they learned Taiwan President Lee Teng-hui had been granted a visa to visit his alma mater for Reunion '95, Cornell administrators had just two weeks to prepare for an onslaught that would include diplomats, elected officials and 400 journalists from around the world.

"This Reunion ought to be comparatively quiet," said Sergeant Lin Hurd, special projects manager with Cornell University Police, with classic understatement.

Still, at least a few nerves are likely to be jangled and at least a few phone lines clogged during Reunion Weekend '96, which runs through Sunday—particularly those of Margaret M. Gallo '81, who as director of reunions and alumni programs advises the dozens of alumni volunteers who have planned events for their respective classes.

"Cornell Reunion could not be a reality without the

tireless efforts of our alumni leaders," Gallo said. "In addition, I have the good fortune of working with several university staff members who know how to coordinate and deliver all the goods and services necessary to host an event such as this. From the housekeeping staff to the folks at PD&C (Planning, Design and Construction), the Office of Alumni Affairs works with an incredible number of behind-the-scenes professionals."

One of them is Mike Goodwin, special events coordinator and head custodian for Barton Hall, who said workers will tap the university's entire inventory of 800 tables and most of its 6,500 chairs for Reunion Weekend, borrowing 100 more tables from Ithaca College.

"Starting on Friday, we'll set up Barton for 1,000 people at the [all-alumni] luncheon," he said. "We'll tear down at 2 and set up for a fancy dinner; when dinner ends at 10, we'll tear down, clean up, and put it back together again for Saturday's lunch."

"You're pretty well burned out, working around the clock," added Goodwin, a 24-year Cornell employee and veteran of 15 Reunions. "We can get off work at 3 in the morning and be back in here by 7 a.m."

Elsewhere on campus, students and staffers working under the watchful eye of carpenter Bill Finnerty will set up

17 tents with stages, electrical cords and power supplies. Finnerty, who came to Cornell nearly 28 years ago, said Reunion Weekend always requires "hard physical work" but added, "I try to put in a lot of humor and have fun with the kids that we work with. We do a lot of laughing."

The fact that Reunion comes just two weeks after commencement wouldn't seem to make Finnerty's or anyone else's job easier. But for Cornell's groundskeepers, it does.

"By the time we get to commencement, much of our work for Reunion is already done," said Clifford Duda, associate director of grounds. "We're preparing and scheduling—ordering topsoil, seeds, mowers and other equipment—almost a year in advance. We start the actual grounds work as soon as the frost is out of the ground."

That work includes mowing 310 acres of grass, tending 80 acres of shrubs and trees, planting 6,000 flowers and sprucing up the campus's many dedicated areas that alumni like to visit, from rock gardens to Ho Plaza.

"So our work for alumni weekend is really just touch-up work," he said. "It's good that Reunion and commencement are like one continuous event, the way we look at it."

Barton Hall's Goodwin disagreed. When asked if he ever wished Reunion came later in the summer, he said, "My body tells me that would be a great idea."



Gallo

CALENDAR

June 6
through
June 13

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

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

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

dance

Cornell International Folkdancers

Open to the Cornell community and general public, all events are free unless noted otherwise. Beginners are welcome; no partners are necessary. For information, call Edilia at 387-6547 or Marguerite at 539-7335 or send e-mail to David at <dhr1@cornell.edu>.

On June 9, Romanian dances, will be taught by Raven, 7-8 p.m., request dancing 8-9:45 p.m., North Room, Willard Straight Hall.

exhibits

Johnson Art Museum

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

Admission is free. Telephone: 255-6464.

- Brown Bag Lunch Tours: Thursday Noontime Gallery Talks June 13: Tour the exhibition "Methods and Media: Twentieth-Century Sculpture from the Collection" with curator Diana Turnbow. Bring your own lunch and enjoy the view from the sculpture court at the end of the tour.
- "A Life Well Lived: Fantasy Coffins of Ghana by Kane Quaye," through June 16.
- "The Gertrude and David Tucker Collection of American Painting," through July 7.
- "Methods and Media: 20th Century Sculpture from the Collection," through Aug. 11.
- "Prints of Darkness: Images of Death," through Aug. 4.
- "Class of 1951 Prints," through Aug. 11.

Kroch Library Exhibition Room 2B

"Invention and Enterprise: Ezra Cornell, a 19th-Century Life," curated by Elaine Engst, university archivist, through June 9.

Veterinary Medical Center

Paintings by Corinne T. Kenney, DVM '62, are on display in the center's gallery through June 9.

Willard Straight Hall Art Gallery

"Firefighters and EMTs," photographs by Kristine Kirk, through June 10.

films

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

Thursday, 6/6

"How Green was My Valley" (1941), directed by John Ford, with Walter Pidgeon and Maureen O'Hara, 7 p.m.

"Hardboiled" (1992), directed by John Woo, with Chow Yun-Fat, 9:30 p.m.

Friday, 6/7

"The Best Years of Our Lives" (1946), directed by William Wyler, with Fredric March, Myrna Loy, 7 p.m.

"The City of the Lost Children" (1995), directed by Jean Pierre Jeunet and Marc Caro, with Ron Perlman, Daniel Emilfork and Judith Vittet, 10:15 p.m.

Saturday, 6/8

"The French Connection" (1971), directed by William Friedkin, with Gene Hackman, Roy Scheider and Fernando Rey, 7 p.m.

"The Silence of the Lambs" (1991), directed by Jonathan Demme, with Jodie Foster and Anthony Hopkins, 9:30 p.m.

Sunday, 6/9

"The City of Lost Children," 8 p.m.

Monday, 6/10

"Espoir" (1947), directed by Andre Mairaux, with Jose Sempere, Andres Mejuto and Julio Pena, 7 p.m.

"The City of Lost Children," 9:30 p.m.

Tuesday, 6/11

"Halfaouine, Boy of the Terraces" (1991), di-

rected by Ferid Boughedir, with Selim Boughedir, Mustapha Adouani, Rabia Ben Abdallah, 7 p.m.

"The Silence of the Lambs," 9:15 p.m.

Wednesday, 6/12

"The Killer" (1989), directed by John Woo, with Chow Yun-Fat, Danny Lee and Sally Yeh, 7 p.m.

"Halfaouine, Boy of the Terraces," 9:30 p.m.

Thursday, 6/13

"Babe" (1995), directed by Chris Noonan, with James Cromwell and Magda Szubanski, 7:15 p.m.

"The Killer," 9:15 p.m.

graduate bulletin

• **Move to Caldwell.** The Graduate School offices have moved from Sage Hall to Caldwell Hall.

• **Dissertation and Thesis Seminars** will be held in Room 100, Caldwell Hall. The master's thesis seminar will be on June 17, 3 p.m. The doctoral dissertation seminar will be June 18, 3 p.m. The thesis adviser will discuss preparing and filing theses and dissertations; students, faculty and typists are encouraged to attend.

• **August Degree Deadline.** August 23 is the deadline for completing all requirements for an August degree, including submitting the thesis/dissertation to the Graduate School.

• **Orientation Volunteers.** Volunteer as a graduate adviser for Graduate Orientation Week, Aug. 21-31. Interested graduate and professional students should contact Victoria Blodgett, manager of the Big Red Barn Grad Center (254-4723 or vab2@cornell.edu).

• **Summer Graduate Registration.** Forms for Summer Graduate Registration are available at the Graduate School information desk, Room 150, Caldwell Hall. Student ID and in-person registration are required. Students must register if they are 1) receiving financial aid during the summer (such as fellowships, summer loans, assistantships, travel grants, or tuition awards); 2) wish to use campus facilities during the summer; or 3) are off campus but need to be registered for summer study. Graduate students who have been registered for a regular semester during the preceding academic year do not pay tuition for *noncredit* summer registration. Students approved for summer residence credit must pay the appropriate pro-rated Graduate School tuition rate.

music

Department of Music

June 8, 8:15 p.m., Barnes Hall: David Borden and Edward Murray play two-piano jazz in a program called "Just You, Just Me." Borden is a composer and director of Cornell's digital music program and Murray is the director of the Cornell Symphony Orchestra.

religion

Sage Chapel

Sundays at 11 a.m. (when University is in session). Addresses by guest representatives of all faiths. University organist is Annette Richards, and the Sage Chapel choirmaster is William Cowdery.

African-American

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

Catholic

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

Christian Science

Testimony meetings sharing healing through prayer and discussion every Thursday at 7 p.m., and Sundays at 10:30 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.

Korean Church

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

Muslim

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

seminars

Nutritional Sciences

"Food as an Expression of National Identity," Anne Murcott, sociologist, South Bank University, June 11, noon, 339 MVR Hall.

symposiums

Pew Science Program

The "Symposium on International Science and Engineering Education" will help science educators find ways of building programs that will encourage science students to consider international experiences as fundamental to their education. The symposium talks, held June 9-12 in Room G10 Biotechnology Building are free and open. The keynote address will be given by Frank H.T. Rhodes, 9:15 a.m. on June 10. His talk will be on "Unity and Diversity" in science education in different cultures.

misc.

Alcoholics Anonymous

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

Athletics

Intermural Summer Softball: Competitive, coed and recreational leagues are now forming for softball season (June 17-August 1). Open to the Cornell community. Teams play two games a week. Entry fee: \$50 due by June 11, 5 p.m., Intramural Office, 305 Helen Newman Hall. 255-2315.

Cornell Savoyards

Accepting applications for Dramatic, Music and Technical Directors to direct fall production of Gilbert & Sullivan's comic operetta *Yeoman of the Guard*. A favorite of many G&S followers, the show is packed with beautiful music and entertaining characters. Honoraria offered. 257-0496.

CRESP

CRESP celebrates 25 years of "Raising Issues and Seeking Solutions" on June 8 from noon-2 p.m. in the One World Room in Anabel Taylor Hall. At a luncheon and panel discussion, an award will be instituted to honor the Rev. Jack Lewis, former director of Cornell United Religious Work. Reservations for the luncheon, which is open to the public can be made by calling 255-5027 or 255-6202. Luncheon tickets are \$10 per person.

Emotions Anonymous

This 12-step group that helps people deal with emotional problems meets for a discussion meeting on Sundays at 7:30 p.m. and a step meeting on Tuesdays at 8 p.m. at the St. Luke Lutheran Church, 109 Oak Ave., Colgate town. For more information call 387-0587.

Health Education

Lunch-time Meditation: Guidance in diverse approaches including some gentle movement. Wednesdays through July 10, 12:15-1 p.m., Founder's Room, Anabel Taylor Hall, open to all.

Johnson Museum

"Creating Character," a drawing workshop with David Estes. Working from the museum's collection and considering aspects of the theater, students will draw figures with attention to creating character. Fridays, June 7-28, 3-5 p.m. Fees: \$46 members/\$50 non-members. 255-6464

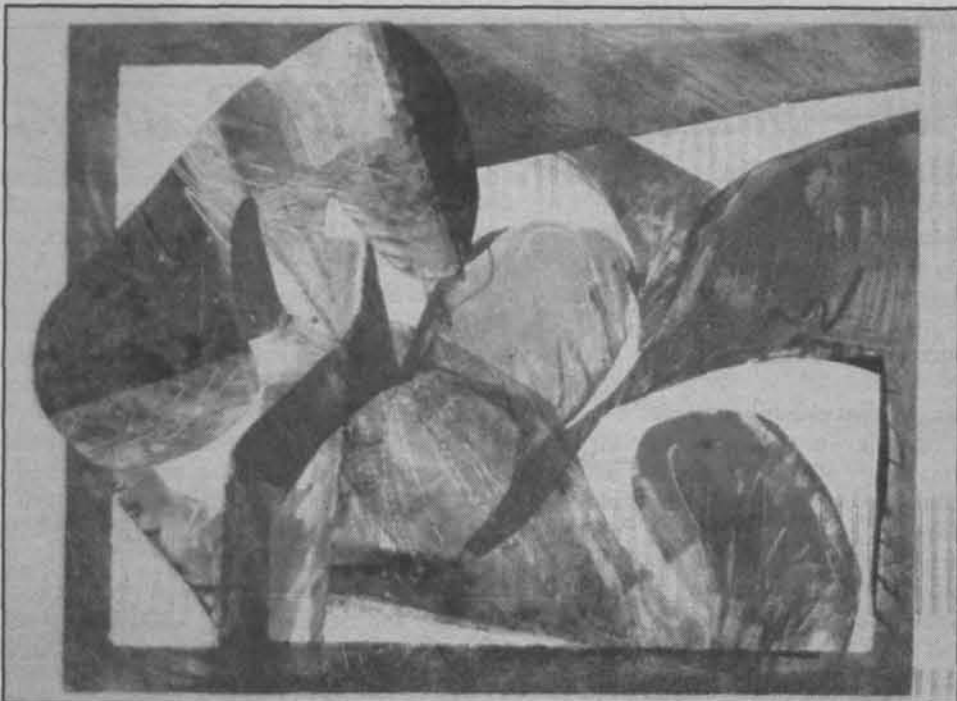
Mann Library

Mann Library computer workshops are free to the Cornell community and are held in the Stone 1 Microcomputer Center. Registration is required. To find out prerequisites and attendance limits, call 255-5406 or e-mail: <mann_ref@cornell.edu>. Intro to Literature Searching: June 4, 9-11 a.m.; Design Your Own Web Page: June 6, 2-4 p.m.; June 13, 11a.m.-1 p.m.; Excel Spreadsheet Basics: June 11, 10 a.m.-noon.; Surfing the Internet on the World Wide Web: June 5, 9-10 a.m.; MS Word for Theses: June 6, 9-11 a.m. and June 12, 2-4 p.m.; Managing Your References Using Endnote: June 13, 9-10:30 a.m.; Advanced Web Searching: June 12, 10-11:30 a.m.

Uris Library

This summer's workshops include: Internet I on June 11 and HTML I on June 12. Both workshops are from 2-4 p.m. in the Uris Library Electronic Classroom. Free. Limited to 20 participants.

Alumni art



The monoprint "Broken Barriers" by Barbara Erdman '56 is part of an alumni art exhibition running through June 14 in the John Hartell Gallery in Sibley Hall. See story on Page 2.