

Tour helps show state legislative contingent the importance of Cornell programs.

Professor Noel MacDonald is named director of the renamed Cornell Nanofabrication Facility.

## Hate-speech debate draws crowd, strong opinions

By Ann Caton

Nadine Strossen, the president of the American Civil Liberties Union (ACLU), and Richard Delgado, the Charles Inglis Thomson Professor of Law at the University of Colorado, agree on many issues, they say. But Monday night, the two came together at Bailey Hall to debate one of the most hotly argued topics on campuses across the nation: the need for hate-speech codes.

Strossen spoke against such codes, and Delgado in favor, before a crowd of sev-

eral hundred people. The debate was moderated by Charles McClintock, the associate dean of the College of Human Ecology.

Delgado argued that campuses should regulate hate speech in the interest of equality and called for "especially severe sanctions" against speech that attacks the core our-



Delgado



Strossen

identities: ethnic, racial, religious, or sexual. Citing the rise in reported hate-speech incidents on campuses, Delgado said they "are not invitations to dialogue, but a way of silencing people off." Hate speech causes more than psychological harm, Delgado said - it carries an implicit threat of violence as well.

Delgado lauded the "progressive" accomplishments of the 300 campuses in the United States that have adopted hate-speech codes.

Strossen countered his praise of those codes with criticism, noting that the first enforcement of Wesleyan University's hate-speech code was against a black activist scheduled to speak at the campus. She warned that hate-speech codes have been, and will continue to be, used against "those who are seeking reform, those who are ad-

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## FCR votes for Senate form of government

By Jacquie Powers

After a strong endorsement by President Hunter Rawlings, the Faculty Council of Representatives voted overwhelmingly last week to recommend that the university faculty restructure faculty governance and adopt a Senate form of government.

The proposal, which has been in the works since early this year, now goes before the full faculty twice for a vote - at a university faculty meeting Oct. 11 and by mail ballot after that.

"The purpose of the change is to make communication between the faculty and the administration more effective and to establish a joint partnership for leading Cornell University into the next century," said Peter C. Stein, dean of the faculty.

"A precondition for a joint partnership," Stein said, "is a representative faculty body which can communicate the views of the diverse Cornell faculty to the administration."

Rawlings, speaking at his first appearance before the FCR, backed the proposal.

"I would like to have the faculty continue to have a strong voice in governance at Cornell University. I believe strongly in shared governance. . . . The Faculty Council of Representatives has been valuable, but it has not gained the full support of either the faculty or the administration. Therefore the new proposal has my full support."

He said the new structure is similar to the model he is accustomed to and he feels very comfortable with it.

Stein said the key to better communication under the new structure is that represen-

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### Twist and shout



Charles Harrington/University Photography

Students tackle a game of Twister at Fun in the Sun on the Arts Quad Sept. 16. The annual event is the highlight of a week of activities sponsored by the Interfraternity and Panhellenic councils.

## Survey gives grad programs high rankings

By Jacquie Powers

Cornell's doctoral programs ranked among the nation's very best in a comprehensive assessment of such programs released last week by the National Research Council (NRC).

Cornell tied with Yale University to rank sixth overall in the survey, with 19 of its 36 doctoral programs placing in the top 10 among the universities surveyed. The University of California at Berkeley led the list with 35 programs in the top 10, while Stanford ranked second with 32 and Harvard was third with 28.

Cornell officials were pleased with the ratings overall, which showed some improvement from the previous survey, conducted in 1982. At that time, Cornell had 13 out of 31 programs ranked in the top 10.

"I'm happy with the results," said Walter Cohen, dean of the graduate school. "Some rankings were very good, some were disappointing. But it looks like the university overall is relatively more highly regarded now than it was in 1982."

"What it means is that we are one of the leading research and doctoral granting institutions in the country," he said.

Cohen also pointed out that "virtually none of the top schools ranks significantly higher in program effectiveness than in faculty quality - except Cornell. I consider that perhaps the most striking positive finding about Cornell in the study."

Cornell's ratings were strongest in the arts and humanities and in engineering and physical sciences, where most of its programs were ranked in the top 10. Cornell did

*Continued on page 8*

## Homecoming festivities featured Friday, Saturday and Sunday

Cornell's Homecoming festivities get under way Friday. Here is a listing of some key events for the weekend:

### Friday, Sept. 22

- The Hotel School Dean's Distinguished Management Lecture Series, featuring Gene Rupnik, president of the American Hotel and Motel Association, at 1:25 p.m. in Statler Auditorium.
- "Highlights of the Herbert F. Johnson Museum of Art," a tour of the museum's collection, at 2 p.m. in the museum lobby.
- *The Importance of Being Earnest*, at 8

p.m. at the Center for Theatre Arts. Also at 2 and 8 p.m. on Saturday.

### Saturday, Sept. 23

- "Can Collective Bargaining and Sports Coexist?" at 9:30 a.m. in G10 of the Biotechnology Building. See story, Page 3.
- "The Republican Congress: One Year into Its Majority," at 10 a.m. in Schwartz Auditorium of Rockefeller Hall. The panel discussion, sponsored by the College of Arts and Sciences, features presentations from Robert H. Frank, Goldwin Smith Professor of Economics, Ethics and Public

Policy and professor of economics at the Johnson School and author of *The Winner Take All Society*; Ronald Ehrenberg, Cornell vice president for academic programs, planning and budgeting; and M. Elizabeth Sanders, professor of government.

- All-Alumni Pre-Game Rally and Luncheon, at 11 a.m. in Lynah Rink parking lot.
- Football: Cornell Big Red vs. Holy Cross Crusaders. Kickoff is at 1 p.m. in Schoellkopf Field. The last time these teams met on the gridiron was 1943.
- Alumni and Student Reception and Open House to Celebrate the First Anniversary of

the Lesbian, Gay and Bisexual Resource Office, 3:30 - 6 p.m. in the Memorial Room of Willard Straight Hall. Deb Price, writer of a nationally syndicated column on gay issues, will sign copies of her latest book, *And Say Hi to Joyce: America's First Gay Column Comes Out*, from 4 to 4:45 p.m.

- Glee Club Fall Concert, at 8:15 p.m. in Sage Chapel.

### Sunday, Sept. 24

Homecoming festivities conclude Sunday with a service in Sage Chapel at 11 a.m. Provost Don M. Randel will speak.

## Hate speech *continued from page 1*

vocating equality. Those who are not politically empowered have the most to lose by ceding to the majority the power to suppress expression," she said.

Strossen argued that hate speech is only a "superficial manifestation" of racism and, as such, hate-speech codes are a "tragic diversion" from the fight against the roots of racism.

Delgado said codes are not diversion, but necessity, because hate speech creates a climate that makes people feel justified in denying services to others, based on their race or sexual preferences. Restrictions on hate speech, he said, send an "important

**'Those who are not politically empowered have the most to lose by ceding to the majority the power to suppress expression.'**

— Nadine Strossen

social signal" to students and ensure a safe learning environment.

Strossen, however, argued that free speech is most conducive to learning. She stated that the consciousness raising and political action generated in response to hate speech incidents are educational and empowering to students. This tactic also avoids making a "free speech martyr out of a racist bigot," she said.

Delgado also argued that minority students are "doubly burdened" by this responsibility to protest and stated that it should not be their duty to educate those around them.

The event was sponsored by the Cornell Political Forum, the James A. Perkins Prize, the Dean of Students Community Grant Fund, the Adelpic Cornell Educational Foundation and the Seal and Serpent Society.

## CORRECTION

A sentence in a statement from Cornell President Hunter Rawlings on affirmative action policies, in the Sept. 14 *Chronicle*, should have read:

"Minority students, as a percentage of U.S. citizens in the student body, increased from 11.2 percent in 1980 to 25.3 percent last year; under-represented minority students, as a percentage of U.S. citizens in the student body, increased from 7.3 percent to 10.5 percent over those same years."

## CORNELL Chronicle

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Cornell University is committed to assisting those persons with disabilities who have special needs. A brochure describing services for persons with disabilities may be obtained by writing to the Office of Equal Opportunity, Cornell University, 234 Day Hall, Ithaca, N.Y. 14853-2801. Other questions or requests for special assistance may also be directed to that office.

## Field trip



Adriana Rovers/University Photography

**Diane Miske, a horticulturist with Cornell Plantations, shows students in the Hotel School's wine and food pairing and promotion class some of the herbs in the Robison York State Herb Garden. Students crushed, smelled and tasted about 40 different ethnic herbs to better understand the components of flavor.**

## BRIEFS

■ **Wamwere's decision:** Lawyers for former Cornell student Koigi wa Wamwere, who has been imprisoned in Kenya as a political dissident, have told Wamwere's supporters at Cornell that letters to Kenya in the next week could mean the difference between conviction or acquittal for Wamwere.

Wamwere and his co-defendants were charged in connection with an alleged raid on a police station in which people were killed, and they face a mandatory death penalty. Wamwere is a former member of the Kenyan Parliament, a leader of the opposition party and a "prisoner of conscience" as determined by Amnesty International. Michael Koplinka-Loehr, of the Kenyan Human Rights Initiative at Cornell, said word from Wamwere's lawyers is that the magistrate in Wamwere's case has sug-

gested that he is waiting for a signal from Kenyan President Moi before writing his decision. It is scheduled to be decided Sept. 25. Moi, Koplinka-Loehr said, has shown himself susceptible to pressure from donor nations, such as the United States, and from public-citizen pressure from those nations. The Kenyan Human Rights Initiative is urging people to write officials now in support of Wamwere. Letters can be sent to: President Moi, Office of the President, Post Office Box 30510, Nairobi, Kenya, or faxed to 011-254-2-226284. For more information on Wamwere, contact the Kenyan Human Rights Initiative, G29 Anabel Taylor Hall, Cornell University, Ithaca, NY 14853; phone at 255-9985; e-mail at khri@cornell.edu.

■ **Rhodes salute on video:** Frank H.T. Rhodes, Cornell's ninth president,

retired in June after 18 years of service to the Cornell community.

On May 9, Cornell faculty, staff and students turned out by the thousands to honor President and Mrs. Rhodes and to applaud their personal commitment and service to Cornell. The tribute, titled "Cornell Salutes The Rhodes," featured a gala parade culminating in a grand reception in Barton Hall. A colorful, 40-minute documentary of this salute was captured on video by the Media Services ETV Center at Cornell for those who want to remember and relive the day.

Copies of "Cornell Salutes the Rhodes" are available from the Cornell University Media Services Resource Center, 8 Cornell Business and Technology Park, Ithaca, NY 14850, for \$19.95. Copies also are available at the Campus Store.

## OBITUARY

■ **J. Gormly Miller**, professor emeritus in the School of Industrial and Labor Relations (ILR) and a former Ithaca city alderman, died Sept. 12 at Tompkins Community Hospital. He was 81.

Miller, a World War II veteran, was appointed in 1946 to be the first librarian at the ILR School, a post he held until 1962.

Miller was appointed to the ILR faculty in 1949 and was named professor emeritus in 1977.

He also served as assistant director of personnel and budget for university libraries from 1962 to 1970 and director of libraries from 1975 to 1979.

From 1959 to 1963, Miller was a member of the Ithaca Common Council and served on the Ithaca Civil Service Committee from 1964 to 1967.

He is survived by his wife, Mildred Bevan of Ithaca; a daughter, Susan Milligan of Ithaca; two sons, James G. Miller Jr. of Syracuse and Paul B. Miller of Ithaca; a sister, Margaret Norton of Rochester; and seven grandchildren and one great-grandchild.

Memorial donations may be made to St. John's Episcopal Church in Ithaca or the Library Fund of the ILR School.

## Ag alumni group awards seven

The Alumni Association of the College of Agriculture and Life Sciences will present seven recipients with 1995 Outstanding Alumni Awards tomorrow evening at a ceremony in Ithaca.

• Cheryl A. Parks Francis '76, of Burr Ridge, Ill., is currently vice president of FMC Corp., where she formerly served as treasurer and as director of the company's United Way campaign. She has recently become a member of the Council of Cornell Women.

• Daniel J. Fessenden '87, of Cayuga County, is a member of the New York State Assembly. There, he serves on the Committee on Environmental Conservation, the Legislative Commission on Dairy Development and the Republican Task Force on the Future of the State University of New York. He will be presented with the Young Alumni Achievement Award.

• Jane Longley-Cook '69, of Hartford, Conn., is currently director-at-large and vice president for the Cornell Alumni Federation Board. She also served for two years on the Cornell University Council. Last year, she was awarded the prestigious Volunteer Award from the National Agriculture Alumni and Development Association.

• Bruce W. Widger, D.V.M. '51, of Marcellus, is a retired veterinarian, who has served as president of the National Association of State Veterinarians. A 20-year member of the university's board of trustees (1961-81), he is now trustee emeritus.

• Fred E. Winch Jr. '37, of Bradford, N.H., retired in 1975 after serving more than 30 years as the state's extension forester. Also, he was acting chair and extension leader of the Department of Natural Resources. He used his wide knowledge of maple syrup production and marketing to help establish New York as a major maple syrup producer.

• Kenneth E. Wing '58, of Cobleskill, is president of SUNY College of Agriculture and Technology at Cobleskill. He joined the faculty of the College of Life Sciences and Agriculture at the University of Maine, where he was eventually named dean. Wing returned to Cornell, where he was appointed ALS associate dean in 1982.

• Lee Teng-hui '68, is the president of Taiwan. He received his Outstanding Alumni Award on June 10, when he returned to Cornell for Reunion Weekend. The award ceremony was covered by international news media.

# Vets called key to future food, health, environment

By Roger Segelken

Sufficient food for an exploding world population – as well as the health of production and companion animals, people and the environment – all depend on well-educated veterinarians of the future, a British lord told the Advisory Council of the James A. Baker Institute for Animal Health last Friday night.

"The underpinnings of all veterinary education must be in veterinary schools where research is emphasized," Dr. Lawson Soulsby said at the annual meeting of the



Soulsby

Ithaca-based institute, which is a research arm of the College of Veterinary Medicine. An immunoparasitologist who is the only veterinarian to serve in the British House of Lords, the speaker called Baker Institute "the jewel in the crown of veterinary research in the United States."

Before a keynote address that capped two days of meetings, the institute cited several individuals for efforts on behalf of the organization, including a Connecticut bookkeeper whose indirect philanthropy will support future graduate students.

Although his title is firmly rooted in England – The Baron of Soulsby of Swaffham Prior in the County of Cambridge – Soulsby is not a stranger to the United States. He was a professor of parasitology and chairman of the Department of

Pathobiology at the University of Pennsylvania School of Veterinary Medicine when the Baker Institute's current director, Dr. Douglas Antczak, was a student there. He returned to the University of Cambridge as dean of the veterinary faculty in 1978, and became a Peer of the Realm in 1990.

The world's food-producing animals are continuously threatened by new and recurring diseases, Soulsby said, noting that a plague of rinderpest killed all the cows in England 150 years ago and, as recently as 1968, that country's herds were struck by foot-and-mouth disease. Although major epidemics eventually are handled by government organizations, he said, the first line of defense is the concerted effort of each nation's veterinarians – a public health service provided at

virtually no cost to the public.

Lecturing on "Challenges for Change in the Veterinary Profession," Soulsby noted the role of animals in providing high-quality protein and draft-animal power and the role of veterinarians in caring for animals. By the year 2020, an overpopulated world will need as much food as was produced in the past 10,000 years, he said. A farmer in a developing country can no more afford to lose his animal resource – one yak or a water buffalo – than can an American farmer with a thousand cattle, he added.

Biotechnology offers hope for increased food production of all kinds, but there is widespread suspicion – and some pockets of strong opposition – to genetic engineering, Soulsby observed, stating: "We cannot ig-

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## Panel wrestles with sports' labor problem

By Darryl Geddes

Sports and its labor disputes have dominated headlines, turned away fans and transferred the real playing field from the diamond, hard court and rink to the board room.

Cornell will bring prominent sides of the conflict to the table for a free-wheeling discussion on the question "Can Sports and Collective Bargaining Coexist?" Proceedings begin at 9:30 a.m. Saturday, Sept. 23, in Room G-10 of the Biotechnology Building.

The lineup of the all-Cornell-alumni panel features: National Hockey League Commissioner Gary B. Bettman; W. Buckley Briggs, assistant general counsel for the National Football League Management Council; Robert Manfred Jr., a partner in Morgan, Lewis & Bockus' labor employment law section, who has represented major league baseball teams in salary and grievance arbitrations; and L.

Londell McMillan, an attorney whose clients have included professional athletes Ronnie Harmon and Roberto Kelly.

Dick Schaap '55, ABC's Emmy-winning sports correspondent and host of ESPN's "The Sports Reporters," will moderate.

Bettman '74, who became the first commissioner of the NHL in 1993, was in the middle of a labor dispute earlier this year when management held a lock-out that kept hockey games on ice for nearly half a season.

Briggs '76 oversees a staff of lawyers in representing NFL teams in all grievance and arbitration matters. He plays a key role in the administration of the current collective bargaining agreement with NFL players. He also has served as an adjunct professor of law at Cornell and as a visiting professor at the School of Industrial and Labor Relations.

Manfred '80 represents employers in numerous industries, including professional sports and transportation. He participated directly in the formulation and negotiation of economic and non-economic proposals for major league baseball teams in two separate rounds of collective bargaining.

A former sports agent, McMillan '87 now represents recording artists and producers, professional athletes and businesses in the entertainment, retail and fashion industry.

Schaap has won five Emmy awards, the most recent for writing in 1994. He played lacrosse while at Cornell and is a member of the university's Athletic Hall of Fame.

The sports arbitration panel is one of the many activities planned to celebrate the 50th anniversary of ILR School.

## Vet College show and tell



Photographs by Adriana Rovers/University Photography

Officials of the state agency that funds the Diagnostic Laboratory in the College of Veterinary Medicine – the Department of Agriculture and Markets – got an inside look at lab operations during a Sept. 11 tour of the Cornell facilities. In the photo above, Stephanie Schaaf (left), parasitology section technical services supervisor, discusses procedures with First Deputy Commissioner Keith Stack (seated) and Dr. John Huntley (standing, right), director of the Division of Animal Industry, while Diagnostic Laboratory Director Donald Lein (center) looks on. At left, Dean of Veterinary Medicine Franklin M. Loew describes the diagnostic lab as "the most public interface the college has with the public and the producers. These are the people who take research out to the public," Loew said.



## Educator: Schools need help for social mission

By Blaine Friedlander

New York must not only arm the state's future schoolchildren with education, but provide reasonable social values if they are to become productive, self-sufficient members of society. Otherwise, the pupils will face continued social and moral decline, a Cornell educator testified Friday at Ithaca's City Hall before the State of New York's Legislative Commission on Rural Resources.

"Critics of public education, particularly those who attack costs, must accept – like it or not – that the school's role has changed and will continue to change," Michael Joseph, executive director of Cornell's Rural Schools Program told the bi-partisan, bi-cameral commission:

"If schools are to be charged with curing society's ills and preparing a child socially, emotionally, ethically and morally to make a contribution – a task which was only tangential to our predecessors – it is going to mean not only restructuring our schools and social agencies, but also will require a more equitable distribution of funds," he said.

"Throughout the state, in general, we have children raising children," Joseph said. "Schoolchildren today are no longer grounded like they used to be and that is a serious social problem. Solutions to this and other problems are not simple."

David H. Monk, chair of Cornell's Education Department, and Brian Brent, doctoral student in education, presented resource allocation findings to the same panel.

The researchers found, for instance, that between 1983 and 1992, the state's special education faculty increased by 55 percent, and foreign language faculty increased by 44 percent. The areas of math and science saw less than 1 percent increases, while English had a decrease.

"It is important to view these changes in staffing commitments in light of changes in student enrollment," said Brent. Their findings indicated that while elementary staffing increased by 30.6 percent between 1983 and 1992, student enrollment increased 10.8 percent. In secondary schools, staffing increased by 4.1 percent, while enrollment decreased by 16.8 percent.

They cautioned staffing levels do not necessarily reflect quality of education.

## Studies: Rural poor need food stamps more, use them less

By Blaine Friedlander

The rural poor who most need federal food stamps are least likely to get them because of where they live, according to studies conducted by a Cornell professor of rural sociology.

"The need is felt in all regions of the country, but the need is particular in rural America. Ironically, where the need for food stamps is strong, so too is the inability to participate in the program," Thomas Hirschl said. He and his colleague, Mark R. Rank, professor of social work at Washington University, have linked population density and welfare participation through longitudinal studies.

Hirschl will present a talk, "The Implication of Changing Welfare Reform Programs for the Rural Poor," at a seminar sponsored by the U.S. Department of Agriculture's Economic Research Service on Sept. 22 in Arlington, Va.

Studying all counties in the country, the researchers found a wide gap in food stamp participation levels. For example, in urban areas, about 61 percent of the eligible people participated in the food stamp program, while only 45 percent participated in rural counties. In counties where rural and urban areas were mixed,

**'We found that where the need for welfare provision is greatest, the use of such programs is smallest.'**

— Thomas Hirschl

about 57 percent of eligible people participated.

Eligible participants who did not participate in the food stamp program were likely to be in married-couple families, employed, white, residents of the southern United States, aged 65 or older.

Attitudes toward food stamps also affect their usage.

"Those in rural counties are also more likely to express unfavorable attitudes toward using food stamps," Hirschl said. In the study, about 10 percent responding in the rural counties cited "adverse attitudes" for their non-participation, compared to 3 percent in urban counties.

Further, the study found that nearly 17 percent of the rural respondents did not think they were eligible to participate. In urban areas, accurate information about food stamp eligibility is more easily obtained by low-income households.

"Thus, persons in less densely populated areas were significantly more likely to fail to participate for these two reasons," Hirschl said.

Both the urban and the rural respondents were equally unlikely to have completed a high school education and equally likely to have incomes below the poverty line. And 45 percent of the rural group was likely to have a work-limiting disability, compared to 30 percent for the urban group. Conversely, 68 percent of the urban group was less likely to be employed, compared with 52 percent of the rural group.

In examining welfare participation, the researchers believe that previous studies have overlooked the importance of population density.

"Our research demonstrates that density plays a significant role in constraining or facilitating participation in public assistance programs. That's important from a policy perspective," Hirschl said.

"All of this suggests that the use of welfare is shaped by factors other than individual, economic or eligibility," Hirschl said. "Spatial and geographic factors are important as well. In regard to urban and rural poverty and welfare participation, there is the paradox in the American welfare system: Where the need for welfare is greatest, participation is the lowest."



Adriana Rovers/University Photography

New Judicial Administrator Barbara Krause poses in her Day Hall office.

## Two named to university's judiciary system

By Linda Grace-Kobas

Two new appointments in the campus judiciary system have been announced.

Barbara L. Krause, a 1986 Cornell Law School graduate who has been with a private law firm for seven years, has been appointed campus Judicial Administrator (JA). In that position, she receives, investigates and adjudicates complaints of violations of the Campus Code of Conduct.

Peter Hadrovic, a current Law School student, has been appointed Judicial Codes Counselor (JCC), a position independent of the JA's office that provides free assistance to anyone accused of violating the Campus Code.

"My biggest challenge as JA will be to enforce the Campus Code of Conduct in a way that is respected by the university community at large and through a process that people have confidence in," said Krause. Because of the confidential nature of the campus judicial process, she must balance individual rights against the need to inform the campus that the code is being enforced and that there are consequences for violations.

"Being accountable to the community and yet keeping information confidential will be a challenge," she said.

Saying she is "thrilled" to be back in an educational setting, Krause said the opportunity to work with students was the main attraction of the JA's position for her.

"I will always be trying to further an educational objective," Krause added. "My responsibility is to enforce rules in a way that will further educational objectives rather than to punish for punishment's sake."

"For many of the students I see, it will be their first brush with any kind of judicial system," she said. "If they are answering a complaint, I don't want them to enjoy it, but they should end the experience by respecting the process and the results."



Peter Hadrovic

Krause replaces Marjorie Hodges, who has joined Cornell Information Technologies (CIT) as legal policy adviser.

"I feel really fortunate to be coming into this job at this time because I think the system is very well respected because of the great job Margie did," Krause said.

Students who must respond to the JA about alleged violations of the Campus Code can contact Hadrovic for advice in the JCC office in 323 Sage.

"The JCC can play a critical role for someone facing disciplinary action and make a significant and lasting difference in their life," Hadrovic said. "I can explain the rules, provide an honest assessment and represent the student effectively when necessary with an eye toward making the first encounter with the JA the last."

Krause was editor-in-chief of the *Cornell International Law Journal*, served on the Committee on Career Planning and Placement and was a writing instructor in the Practice Training Course while she was a law student here. After graduation, she held a U.S. District Court clerkship under the Hon. Edward T. Gignoux in Portland, Maine, and then joined the law firm of Drummond, Woodsum & MacMahon in Portland in 1987.

An active nature lover, Krause was on the board of directors of Portland Trails. She also was a member of the Cumberland County Bar Association and the Maine State Bar Association, for which she served on its Board of Governors, Committee on the Status of Women Attorneys and Young Lawyers' Section.

She received her A.B. in philosophy and German in 1981 from Duke University, where she was elected to Phi Beta Kappa.

Krause is also an athlete who played semi-professional basketball in Dorsten, Germany, for two years after graduation from Duke, where she was captain of the women's varsity basketball team. While studying at Cornell, she often worked out with the women's basketball team and has since become an avid golfer.

Hadrovic graduated from Princeton University with a degree in history in 1988 and then went to the National University of Singapore on a Rotary International Graduate Scholarship in 1991. He has served as district chief of staff in Buffalo and legislative assistant in Washington D.C. for Congressman John J. LaFalce (D.-N.Y.).

## Veterinarians key to future *continued from page 3*

nore public concerns. The veterinarian, with his deep understanding of animal health and disease, can answer many of the concerns." Even "green" organizations that oppose genetic modification of plants and animals will listen attentively to veterinarians because they recognize the expertise, he said, and veterinary education should equip students to address these issues.

To his audience of advisors and faculty members at the Baker Institute, which is best known for its accomplishments in vaccine development and more recently for studying inherited diseases, Soulsby said the institute is "worldwide known for protecting companion animals against disease." And those 800 million cats and dogs will have another role, besides providing companionship, lowering blood pressure and cholesterol levels, he said.

"Just as the canary in the coal mine warned miners of the presence of methane," Soulsby said, "our companion animals should be able to do the same for us," by serving as "sentinels to monitor the environment." That kind of moni-

toring is already under way at Cornell, where family dogs at an Indian reservation near a Superfund dump site are tested for PCB contamination that may also affect humans living there. "Veterinarians in private practice (should be) taking note of conditions of animals in respect to their environment," he said. "Veterinary education must be the leading point of any new thinking."

Of all the awards and citations presented Friday night, including a Cornell chair to Dr. Robert E. Shope, chairman of the institute's advisory council since 1990, the most touching went — posthumously — to a person who was neither a scientist nor a wealthy philanthropist. The late Barbara J. Hartsig of Stamford, Conn., was a bookkeeper in a firm that administers charitable funds.

In addition to her small, annual gifts to the institute to memorialize Tanya and Butch, two dogs that predeceased her, Hartsig managed to persuade the Carl J. Herzog Foundation to support Baker Institute, even though the fund does not normally aid animal-health research. Her greatest coup

occurred when she interceded in behalf of the institute with a fund that was about to be dissolved, the Johanna-Maria Fraenkel Trust for animal health and welfare. Several hundred thousand dollars from the Fraenkel Trust will establish an endowment for mammalian research at Baker Institute and the proceeds will support graduate students' research.

The award notification letter that Hartsig would have received, had she not died a few days before, read in part: "The support we have received as a result of your friendship will have a lasting impact on the success of our research and teaching missions."

Accepting the Arthur F. North Canine Service Award for Barbara Hartsig was her husband, Robert, who spoke of "the ripple effect" of concern that spread from his wife's love of animals, a concern that eventually reached the Baker Institute and then returned to his family. Inside his wife's casket when she was buried in August, he noted, were the ashes of the cremated pets, Tanya and Butch, who had inspired her interest in animal research.

# Debate examines Cornell sexual harassment policy

By Darryl Geddes

Cornell's sexual harassment policy was the focus this week of an on-campus debate, sponsored by a student group at the Law School.

Michael S. Greve, co-founder of the Center for Individual Rights, also used the occasion to tell an audience of about 60 Tuesday in the MacDonald Moot Court Room of Myron Taylor Hall that the conduct of a College of Arts and Sciences committee, in hearing a recent case against a Cornell professor, James B. Maas, violated his rights.

Greve is one of Maas' advisers in the psychology professor's \$1.5 million lawsuit against Cornell. The Center for Individual Rights, based in Washington D.C., is a conservative, public-interest law firm, specializing in representing individuals in suits against colleges and universities.

In his criticisms addressed to the Arts College procedures and policy, Greve was countered by Mary Beth Norton, the Mary Donlon Alger Professor of American History at Cornell.

Norton, who helped draft the sexual harassment policy for the Arts College, said federal law requires Cornell to have adequate procedures in dealing with complaints of sexual harassment. She admitted that the policy was not perfect, but likened it to the U.S. Constitution, noting that it, too, was imperfect at the outset but has



Greve  
Adriana Rovers/University Photography

evolved over time.

"Based on the experience of recent cases, the Arts and Sciences procedures have done what they were designed to do, that is, to handle such cases with dispatch and fairness to all parties," she said.

Greve disagreed. The university's sexual harassment procedures, "are driven by relentless ideological commitment rather than the concerns for the rights of all partners involved," he said Monday evening.



Norton  
Adriana Rovers/University Photography

Greve, who is not an attorney, said the university should rewrite its harassment policy. He said there should be penalties, such as expulsion, for someone who files a frivolous harassment claim, that sexual harassment violations should be treated like other campus infractions, such as plagiarism, and that members of committees that review sexual harassment complaints should be held personally liable for negligence in their review of cases.

Norton said Greve's suggestions would offer no improvements to Cornell policies.

Greve also argued against Cornell's locked-box policy, which allows a student to put a signed complaint in a locked box, to be seen only by the senior harassment counselor. The complaint is not seen by the accused.

Norton argued that such privacy safeguards a complainant from retaliation by his or her offender, but also provides the accused with a measure of security. "Complaints filed, but not acted upon, cannot be used against a faculty member by an administrator who is out to get that faculty member," the professor said.

Greve characterized sexual harassment and the hostile environment of the workplace as a "feminist invention," designed as part of the larger feminist objective of creating a "universe of oppression." He said the idea of sexual harassment came into vogue in the 1980s as a means for women to overcome the power differential with men.

Norton politely chided her opponent, saying Greve's understanding of sexual harassment showed how little he knew about feminism and women's history. She also pointed out that his letter proposing the debate indicated an intent not to discuss the Maas case, but rather the procedures of the Arts College.

The debate was sponsored by the Cornell Law School Chapter of the Federalist Society.

## Student leaders at conference learn the benefits of public service

By Dennis Shin

Student leaders from an array of campus organizations gathered Sept. 16 in Martha Van Rensselaer Hall to demonstrate that the growing field of public service embodies much more than volunteer work.

In an effort to strengthen leadership skills and reaffirm their commitment to bridging gaps in the community, delegates representing student groups met to discuss "Making an Impact," the first public service leadership conference sponsored by the university's Public Service Center.

Featuring a series of workshops that addressed such topics as job hunting, risk management and multiculturalism, the conference provided an outlet for the target audience of student leaders to connect experiences and build leadership strategies. Through this initial exchange of ideas, the coordinators of the student-driven project hope to establish a campus-wide dialogue on service activities.

"I was really pleased with our efforts and I am looking forward to see how those who participated respond," said Senior Aileen Gariepy, who works as the student coordinator at the Public Service Center.

Gariepy led a workshop on recruitment with Senior Jennifer Wu, of the Chinese Students Association. According to Gariepy, some of the workshops offered evolved out of ideas that she and others brought back from a national conference sponsored by the Campus Outreach Opportunity League (COOL) last March.

"We made sure that certain workshops were led by students because peer education was one of our goals," said Kim O'Halloran, program coordinator at the Public Service Center. O'Halloran worked closely with student leaders in developing the schedule and program for the conference. Upon arriving at Cornell last semester from a similar position at Rutgers University, she noticed a strong demand for a leadership education forum on campus that encompassed all aspects of the student body.

Susan H. Murphy, vice president for student academic services, delivered the keynote address. She emphasized the value of both leadership and service on campus while

placing the definition of community into the broad context of higher education.

Besides student participants, the conference also invited leaders and professionals from the field of public service. Sam Beck, director of the Urban Semester Program in New York City, conducted a plenary session with other representatives of non-profit and community service organizations.

Beck stressed the importance of experience-based learning. He noted how some students start out convinced they want to work in the public sector and then realize that their experiences have served as texts to

**'The main objective of this conference was to meet . . . students' requests and needs [for leadership education] and give them the basis on which to, then, build. Based on feedback we get back from the evaluations of the participants, we hope to use the conference as a springboard for further education initiatives.'**

— Kim O'Halloran

prepare them for any field of their choice.

Offering advice to those interested in pursuing a career in the field of public service and non-profit organizations, Kristine DeLuca-Beach, director of the Human Ecology Career Office, presented "Beyond Commencement: Putting Public Service to Work in Your Job Search." Since 80 percent of available jobs never make it to the want ads, according to DeLuca-Beach, students must learn key tips on cracking into the hidden job market.

She also informed her audience that non-profit organizations are the largest growing category within the service sector. Although the service sector is growing, she acknowledged that funding is being slashed at all levels of government.

"Non-profits have made a living out of working with small resources and doing more with less, so I don't think they're as affected by this economy right now as the major corporations are," DeLuca-Beach said. "Certainly things are tight, but there's a lot of growth happening as well."

Senior Adam Michaelides found the information he learned at the conference both useful and encouraging.

"I was unaware of what the job search was all about," he said. "Since I'm a senior and I'm also interested in the field of public service, I found the 'Beyond Commencement' seminar particularly helpful."

Katherine Doob, director of the Public Service Center, felt that the conference reached out to an audience broader than those involved in public service. She saw the workshops as opportunities to unite subgroups of the campus community.

"What we're seeing are a lot of different groups operating in isolation, not necessarily having the chance to interact with groups that are doing similar things or struggling with similar issues. An objective of this group was to put these people together so that they can learn from each other and share some of their own experiences in developing leadership, working with volunteers, learning about goal-setting and strengthening the community in general," said Doob.

Besides initiating a campuswide leadership conference, the Public Service Center also sponsors the Coalition for Service. Each month, leaders of campus organizations gather for a roundtable discussion in order to exchange information about upcoming issues and events on their agendas.

"The people I work with are so highly motivated by an array of personal experiences that are directly related to global issues," said Gariepy, who besides coordinating programs for the Public Service Center also volunteers for the community service organization Into the Streets.

Commenting on the energy and initiative she encountered at the conference, Kathy Zaslov, executive director of the Brooklyn-based People Against Sexual Abuse (PASA), said, "I was quite struck with the level of student leadership in various organizations here, and would love for some of these people to come and work with me."

## HelpDesk offers in-person computer advice by appointment only

By Ken Stuart

In order to provide better service for the Cornell community, Cornell Information Technologies (CIT) Service HelpDesk staff is offering in-person computer consulting by appointment only. Beginning this week, anyone wishing to visit with a HelpDesk consultant in person must schedule an appointment. This new appointment-based service will reduce the time spent waiting in line under the current first-come, first-served basis.

Request an appointment by calling 255-8990 (choose option 3 on the phone system). The HelpDesk staff will schedule an appointment between 8 a.m. and 5:30 p.m., Monday through Friday, according to time slots available and your preferences. You also may request an appointment by sending e-mail to HelpDesk@cornell.edu; in this case, HelpDesk staff will contact you to confirm the date and time or offer alternatives, as appropriate.

Appointment guidelines:

• **Late Arrivals:** Because the HelpDesk

staff schedules consecutive appointments throughout the day, people with time-intensive consulting needs who arrive more than 10 minutes late may be required to reschedule their visit.

• **Details:** Be sure to provide a detailed description of hardware and software and the problem(s) with which you need help so that the CIT staff can be prepared.

• **Equipment:** Although the HelpDesk staff can accommodate portable computers and modems, space is not available for "desk-top" systems. If you wish to have a

consultant help you with a portable computer or modem, be sure to bring its power supply, cable and manual if you have them.

• **Cancellations:** We may be able to schedule someone else in the time allocated to you if we have your notice of cancellation promptly. Please let us know if you cannot make an appointment for any reason, or no longer need to see a consultant, so that we can help as many people as possible.

For more information about any of the above, contact the CIT Service HelpDesk at 255-8990, helpdesk@cornell.edu.



From left: Jean A. Samuelson, Judith K. Eger and Milton Goldstein plan the program they will present to government officials in Uzbekistan.

## Cornell administrators mentor Uzbekistan government officials

Two Cornell administrators and the head of Challenge Industries are in Tashkent, Uzbekistan, to teach and mentor a group of Central Asian government officials on issues pertaining to welfare and pension systems.

Judith K. Eger, director of special programs for the School of Continuing Education and Summer Sessions, and Jean A. Samuelson, director of employee benefit services, have been joined by Milton Goldstein, executive director of Challenge Industries in Ithaca, in their educational mission. The trio left Ithaca Sept. 16 and is scheduled to return next week.

The three began their relationship with the Central Asians—senior-level officials of the governments of Kazakhstan, Kyrgyzstan, Turkmenistan and Uzbekistan—in November 1994 when a group of 25 came to Cornell for a specially designed monthlong program on pension and welfare systems. Another group of 19 officials spent this May at Cornell studying pension systems.

The programs—Cornell's Special Programs on Pension and Welfare Systems and Management of Pension Systems—were sponsored by the U.S. Agency for International Development as part of its training and

development program for leaders from independent states of the former Soviet Union. The programs were presented by Cornell's School of Continuing Education and Summer Sessions. Eger designed and managed both programs; Glenn C. Altschuler, dean of the School of Continuing Education and Summer Sessions and a professor of American studies, served as academic director.

The weeklong program in Tashkent allows participants to share and analyze their recent experiences in applying what they learned in the United States, as well as giving them the opportunity to consult with Eger, Samuelson and Goldstein on practical issues.

An orientation session on American values and behavior, led by Eger, helped present visitors with a more realistic view of American life. "Many participants were eager to understand the relationship between our values, on the one hand, and American democracy and the free market economy on the other. Many people abroad form a very one-sided and inaccurate picture of our society on the basis of American films; then they may wrongly assume that the violence and crude hedonism they see in films is the basis of our prosperity. Some participants said this explicitly in our discussions."

### FCR vote *continued from page 1*

tation in the governing body is tied to departments rather than colleges, "and departments are more cohesive faculty organizations." Currently, FCR members are elected by the faculty in each college to represent them in the FCR.

Art Professor Victor Kord is familiar with the new structure from his days at the University of Wisconsin and feels very comfortable with it: "I like the idea of departmental representation. In the interest of shared governance, I think this is a good step; this should improve communications."

Under the proposal, the FCR would be replaced by a Faculty Senate of about 100 members. Each department would elect one faculty member to the Senate and departments larger than 25 tenure-track faculty would elect an additional faculty member.

The proposal also creates a senate executive committee, the 11-member University Faculty Committee (UFC), that would advise and consult with the administration on all major policy issues of interest to the faculty. The UFC also would act as a liaison between faculty and the administration. UFC members would be elected from the Senate by the faculty at large and would meet regularly with the provost and/or president.

The new structure also provides for faculty input in the appointment of faculty to key university committees, like search and policy committees. But in the spirit of cooperation and shared governance embraced by Rawlings, the new administration already has implemented the joint appointment of faculty members to key committees, Stein said.

The dean said he hopes to have the new structure fully in place by the new year.

Rawlings briefly discussed his strong

affirmation of the university's affirmative action policy in a statement he released last week in the wake of the controversy over affirmative action nationwide. He also outlined in broad strokes some of the issues he will focus on in the coming year, including:

- **Program review.** "We want to be sure we have broad standards that can be applied across the university."

- **Synergism.** He said much can be gained to enhance educational opportunities, particularly during these times of tight budgets, by cooperation among colleges and departments.

- **Uniformity of standards.** He wants to assure greater uniformity of tenure standards by bringing the tenure review process to the provost level. He also wants to consider more broadly the search for and review of new faculty, with that process also reaching the provost—"So the left hand knows what the right hand is doing and to avoid redundancy," he said.

- **Improve undergraduate education.** He wants to ensure that individual faculty members become closely involved in the educational experience of individual students. He said sadly, "A large number of undergraduates do not feel they know a single faculty member well enough to ask for a letter of recommendation when they leave Cornell."

- **Sexual harassment.** "Sexual harassment cases are difficult for the complainant, difficult for the defendant and difficult for the institution. We need thoughtfully developed and fairly enforced procedures." He said he will institute a broad review of Cornell's procedures "and see what changes we might need to make."

## Getting an education

### State legislators are shown the value of several Cornell programs

By Linda McCandless and Simeon Moss

Cornell hosted key New York state legislators and legislative and executive staff last week, showing them the importance several of the university's statutory college and extension programs have for statewide economic development and agriculture.

The legislative contingent was given an intensive two-day tour on Sept. 12 and 13, spending Tuesday afternoon at Cornell's Agricultural Experiment Station in Geneva and Wednesday on campus in Ithaca.

During the bus trip to Geneva, James Hunter, director of the Geneva station, and William B. Lacy, director of Cornell Cooperative Extension, gave an overview of the land-grant system, the experiment station and extension programs.

#### A tour of the research station

In Geneva, legislators were shown that research conducted at the station directly improves the economic viability of New York agriculture, helping consumer health and the environment.

Apple trees trained on Y-trellises, crook neck squash genetically engineered to resist mosaic virus, nematode-infested grubs, diseased green beans, "killer" tomatoes, and moldy grapes were shown. So, too, were new methods of insect control that reduce pesticide use, breeding programs that improve the disease resistance of New York grapes and apples, processing expertise that saves New York food producers money and time, and aroma compounds that enhance the value-added potential of food.

"It was a rare opportunity to show the New York state legislators that we are not just a farm station but that we attack agriculturally important problems by integrating research in the laboratory with state-of-the-art molecular tools and commodity-based projects in the field," said entomologist Wendell Roelofs, whose department's pioneering research in the chemistry of insect sex attractants has reduced pesticide use across commodities.

Participating legislators were: Assemblyman Edward Sullivan (D-69th Dist.), chairman of the Higher Education Committee; Assemblyman William Magee (D-111th Dist.), member of the Agriculture and Higher Education committees; and Assemblyman Daniel Fessenden (R-126th Dist.), ranking minority member of the Agriculture Committee. They were accompanied by Cornell extension and government liaison staff.

#### The importance of legislative support

"We do a lot of these things," said Assemblyman Sullivan, "but this visit was exceptionally well organized and the presentations gave a good sense of programs at Geneva. I was very impressed."

Sullivan was enthusiastic about the contributions station research has made to industry. "I think we as a legislative body should do more to support New York state agriculture. This kind of research is clearly critical," he said.

Hunter said the visitors were made aware of the serious impact budget cuts have had at the station, but that emphasis was on the "importance of what we do and how well we do it."

"It is a difficult budget climate in New York state, however, we are working hard to position the station for the support it deserves from the taxpayer once the state's financial situation improves," Hunter said.

The tour began in Barton Lab, where legislators were shown the importance of collaborative research between entomologists, horticulturists and extension agents in combating insect pests. The station's fruit-breeding program also was outlined.

Mark McLellan, interim chairman of the food science and technology depart-

ment, made a strong case for food science programs at the station, their importance to industry and consumers, and the "devastating effect" of funding cuts over the past 10 years.

At nearby Red Jacket Orchards, owner Joe Nicholson described his collaborative association with the Geneva station, Cornell Cooperative Extension and Cornell University. Bob Andersen, research professor and extension leader in the department of horticulture at the station, discussed programs with tree fruits other than apples, and showed fruit of a new Victory plum developed in Ontario.

Tuesday evening, the legislative caravan returned to the Ithaca campus, where they were greeted by Cornell President Hunter Rawlings and statutory college deans for dinner at the Big Red Barn. Henrik N. Dullea, vice president for university relations, hosted the informal gathering, which featured a barbecue with Cornell sauce.

#### Some campus programs showcased

On Wednesday, the visitors began their day with breakfast at the Center for Advanced Technology in Biotechnology, where Norman R. Scott, Cornell vice president for research and advanced studies, gave them an overview of research in progress. Center director Lynn Jelinski and Dick Holsten, director of research, outlined programs in biotechnology for, and with, industry.

The group received a drought update from Walter Lynn, senior fellow at the Center for the Environment. Keith Porter, director of the Water Resources Institute, and Rod Dietert, also a senior fellow at the Center for the Environment, described Cornell's work in programs such as the Whole Farm Project and the New York City watershed. Afterward, Jelinski presented each of the legislators with a scented geranium developed by the biotechnology program and the experiment station.

At Martha Van Rensselaer Hall, legislators heard from College of Human Ecology Dean Francille Firebaugh and were given an overview of that college's work with state businesses and education. Peter Schwartz, professor of textiles and apparel, outlined Cornell's assistance to New York state's textile firms. James Garbarino, director of the Family Life Development Center, described the university's work with child-care programs and the cost of violence in the home, and Alan Hedge, professor of design and environment analysis, demonstrated developments in environmental office design and ergonomics.

At Stocking Hall, Joe Regenstein, professor of food science, unveiled a luncheon of new, innovative and ethnic foods using underutilized species of fish, and he discussed the aquacultural program of the College of Agriculture and Life Sciences and Cornell Cooperative Extension in New York City.

Legislators were then taken to Bolton Point Water Treatment Plant on Cayuga Lake, where Chuck O'Neill, coastal resources specialist with New York Sea Grant and Cooperative Extension, provided a zebra mussels program update.

The whirlwind trip wrapped up with a bus tour of campus, with a student guide followed by a stop for ice cream at the Cornell Dairy Bar.

"The key thing we saw was the ability of Cornell researchers to provide the kind of research and development component that businesses need who want to locate in New York," Sullivan said, commenting on the visit. "We are New Yorkers and we should be number one in everything, and this allows us to do that," he said.

"Visits such as these are crucial to having an increased understanding of the research and outreach missions of Cornell," said Dean Firebaugh.



Adriana Rovers/University Photography

Assemblyman Edward Sullivan examines the "grip master" on the wrist of graduate student Simone Corbett. Professor Alan Hedge, from the Department of Design and Environmental Analysis in the College of Human Ecology, explains that the device is used to determine, in this case, if the fixed-angle split keyboard is ergonomically designed.



K. Colton/NYS Ag. Experiment Station/Cornell

Plant pathologist Helene Dillard, at the Agricultural Experiment Station in Geneva, explains to Assemblyman Daniel Fessenden the level of tomato yields that are the break-even point for state tomato growers.



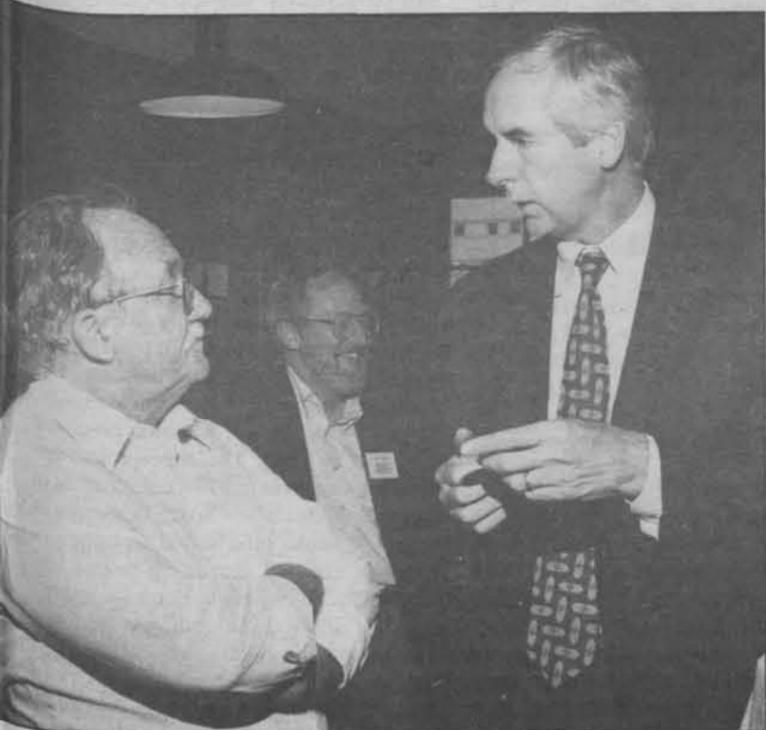
Charles Harrington/University Photography

Agricultural engineering senior Mathew Heberger guides a bus tour of the Cornell campus for visiting state legislators.



K. Colton/NYS Ag. Experiment Station/Cornell

Food science and technology interim Chairman Mark McLellan explains to legislators how programs at Geneva benefit industry and consumer health.



Robert Barker/University Photography

Assemblyman Sullivan chats with Cornell President Hunter Rawlings during an informal gathering at the Big Red Barn.



Charles Harrington/University Photography

Dwight Brown, left, a member of the state Senate Agriculture Committee, talks with Charles O'Neill, coastal resources specialist with New York Sea Grant, at Bolton Point Water Treatment Plant.

# New approach to polymers could yield new materials

By Larry Bernard

Cornell chemists have discovered a new technique for building dendritic polymers that could be used for making better adhesives, lubricants and coatings for a variety of industrial uses.

The technique, called "self-condensing vinyl polymerization," represents a new approach to making materials with polymers that behave like dendrimers — polymers consisting of large, highly branched, globular molecules.

A polymer is essentially a long chain, shaped like a strand of spaghetti. Dendrimers are molecules shaped like trees that contain a core from which polymeric chains branch in all directions. The Cornell group, led by Jean M.J. Fréchet, professor of chemistry, made a vinyl polymer behave like a dendrimer: They made for the first time a



Fréchet

hyperbranched polymer using a modified styrene monomer. Styrene is commonly used in Styrofoam and other materials.

The work, financed by the U.S. Office of Naval Research and the National Science Foundation through Cornell's Materials Science Center, was published in a recent issue of *Science* (Aug. 25). Authors are Fréchet; Masahiro Hemmi, a visiting scientist; Ivan Gitsov, a research associate; Sadahito Aoshima, a visiting scientist from Tokyo; and Marc R. LeDuc and R. Bernard Grubbs, graduate students in Fréchet's laboratory.

Their accomplishment was no easy feat. The chemists had to "trick" the molecule into reacting with itself for the growth of successive branches from the original stem. This was done by forming an ion on the modified part of the styrene monomer; this ion adds to another monomer forming the first branch. Successive additions multiply rapidly the number of branches and force the molecule to become globular.

"It's a globular molecule, not a strand, yet it is made from a vinyl monomer," Fréchet said. "To do this, we've effectively

combined two methods of polymerization into one — vinyl polymerization with polycondensation."

He continued, "The polymerization proceeds by vinyl addition but with the 'looks' of a polycondensation, with bigger and bigger pieces coming together to form the tree-like structure."

The advantage is that the molecules always have a single double bond like vinyl monomers, but they also have dozens or even hundreds of reactive groups. Normally, a polymer has only one reactive site, at its end. With hundreds of them, chemists can add a variety of properties.

"The molecules are little globules with lots of reactive groups at their surface. If you control the surface, you control the globules: you can make them red, you can make them sticky — whatever. We're starting to bring this new family of polymers to the world of plastics," Fréchet said. "We're opening a window onto this technology, which is a low-cost way of making dendritic materials. They are less perfect than true dendrimers, but the idea works."

Working with Craig Hawker at IBM-Almaden, Fréchet, who teaches a large undergraduate course in organic chemistry, also has adapted the process to use "living" free radicals. This new approach complements nicely the original one because it can be used cheaply with many monomers. That work is submitted for publication.

This "self-condensing polymerization" process eventually may become very cheap Fréchet envisions, making it useful for industry as coatings, lubricants, drug carriers and other advanced or "smart" materials produced in this novel way.

"The versatility of the approach stems from the fact that a variety of architectures may be obtained by using several monomers to produce unusual polymer architectures in one pot reactions," Fréchet wrote. "For example, stars and dendritic hybrid structures can be obtained by sequential addition of appropriately selected monomers. Given the interesting properties of these hybrid structures, a fast synthetic process for their preparation would be very beneficial."

## Grad program rankings *continued from page 1*

not fare as well in the social sciences and biological sciences, with the exception of ecology, evolution and behavior.

"We're very pleased. They are very strong showings in a wide range of fields," said Cornell Provost Don M. Randel. "Cornell has long been noted for its excellence in the humanities, such as English and comparative literature, and in the physical and engineering sciences. This report affirms our strong reputation."

Last year, Cornell had 3,030 doctoral students, comprising 16 percent of the student body. In 1992, the number of doctoral degree recipients in the United States reached an all-time high of 39,754.

Ronald G. Ehrenberg, vice president for academic programs, planning and budget, said he will use the results to help guide program improvements.

"I am particularly concerned about the relatively low rankings of many of the social science fields. We have begun an initiative to improve the social sciences at Cornell. I would caution, however, that the rankings in the social sciences are primarily for fields that are based in colleges of arts and sciences nationwide and to a large extent they ignore the applied social sciences strengths that Cornell has in the statutory colleges," he said.

Cohen noted, too, that "the applied biological sciences, in which Cornell has a leading position, also fell outside the scope of the study."

He added that Cornell's relatively lower ranking in the biological sciences might reflect the geographical separation between the Ithaca campus and the Cornell University Medical Center in New York City, which was not included in the survey.

The study by the National Research Council, which is part of the National Academy of Sciences, examined the quality of the faculty and the educational effectiveness of 3,634 doctoral programs in 41 fields at 274 American universities. The rankings, which are purely reputational, were based on an NRC survey of 8,000 university faculty members who evaluated doctorate programs for faculty quality and program effectiveness. The study, conducted over four years, cost \$1.2 million.

Scoring was recorded for each school in each discipline and the universities then were ranked within those disciplines. The ranking of the top 10 schools was not done by the NRC as part of the survey, but was calculated by the media by adding up the number of a school's programs ranked in the top 10.

Norman R. Scott, Cornell vice president for research and advanced studies, pointed out that "while exhaustive, the study does not reflect all of Cornell — for example, largely the non-biological fields of the College of Agriculture and Life Sciences."

He also expressed reservations about "the

## NRC ranking of Cornell's graduate programs

The National Research Council's four-year study looked at 3,634 doctoral programs at 274 graduate schools nationwide. Here are the NRC rankings of Cornell's programs within that group. The first column indicates Cornell's ranking for faculty quality and the second shows the ranking for program effectiveness.

	Rankings	
	Faculty	Program
<b>Arts and Humanities</b>		
Art history	23	23
Classics	12	10
Comparative Lit	6	8
Eng. Lang/Lit	7	2
French	8	3
German	3	4
Linguistics	9	5
Music	11	8
Philosophy	9	4
Spanish	8	3
<b>Physical Sciences, Math</b>		
Astronomy	9	5
Chemistry	6	6
Computer Science	5	4
Geosciences	9	16
Math	15	10
Physics	6	6
Statistics	4	6

### Biology

Biochem/molec	22	17
Cell & Develop	35	23
Eco, Evol&Behav	4	3
Molec/Gen Genet	23	16
Neurosciences	24	18
Pharmacology*	65	81.5
	48	37
Physiology	31	16

\*Note: First ranking is for program in College of Veterinary Medicine; second is for College of Engineering.

process by which the top 10 schools were calculated without regard to where individual programs rank within the top 10. If you wanted to play the game of how many are in the top 10, it seems like it ought to be weighted based on whether your program ranked first or 10th. This doesn't tell the whole story."

Princeton and the Massachusetts Institute of Technology placed fourth and fifth respectively, with 22 and 20 programs in the top 10. The University of Chicago was eighth, the University of Pennsylvania was ninth and four schools tied for 10th: University of California, San Diego; Columbia University; University of Wisconsin, Madison; and the University of Michigan.

## The top 10

The schools' rankings and the number of programs in the top 10:

1. University of California, Berkeley, 35
2. Stanford University, 32
3. Harvard University, 28
4. Princeton University, 22
5. Massachusetts Institute of Technology, 20
6. (tie) Cornell, 19  
Yale University, 19
8. University of Chicago, 18
9. University of Pennsylvania, 15
10. (tie) Univ. of California, San Diego, 14  
Columbia University, 14  
University of Michigan, 14  
University of Wisconsin, Madison, 14

	Rankings	
	Faculty	Program
<b>Social and Behavioral Sciences</b>		
Anthropology	31	14
Economics	18	19
History	13	13
Political Science	15	15
Psychology	14	13
Sociology	35	25

### Engineering

Aerospace	6	6
Chemical	13	10
Civil	6	7
Electrical	7	7
Materials Science	3	3
Mechanical	7	9

The report also noted that:

- Programs that were rated in 1982 tended to have a similar rating this time.

- It is taking longer to earn a doctorate at almost every institution in almost every field, but, on average, the time is greatest for lower-rated programs.

- In many fields, women and minorities still are underrepresented among those receiving doctorates. However, despite their underrepresentation, they are as likely to graduate from highly rated programs as non-minority males.

- Highly rated programs tend to be larger, as measured by the number of faculty members, graduate students and degrees conferred.

## Astronomer touts Hubble Space Telescope

By Larry Bernard

The Hubble Space Telescope is giving astronomers an unprecedented peek into the past that offers valuable clues on the age and structure of the universe, a noted astronomer said here last week.

With instruments that can image galaxies toward the edge of the observable universe as well as bodies well within the solar system, the Hubble Space Telescope is giving the astronomy community insight into how galaxies behave, stars form, how the universe began and, no less important, how a planet relatively near our own suffers the indignities of a cosmic body slamming into its surface.

"These images can tell us much about early universe. We're looking backward in time with the Hubble Space Telescope," Lyman Spitzer, professor of astronomy emeritus at Princeton University, told a Cornell audience last week. "It promises to be a rewarding adventure."

In a public lecture on Sept. 14, in Schwartz Auditorium, Spitzer described the early notions of an orbiting telescope in the late 1940s. A report he helped work on "convinced me that a large telescope in space was within the realm of possibility. It became, for me, one of my long-term goals."

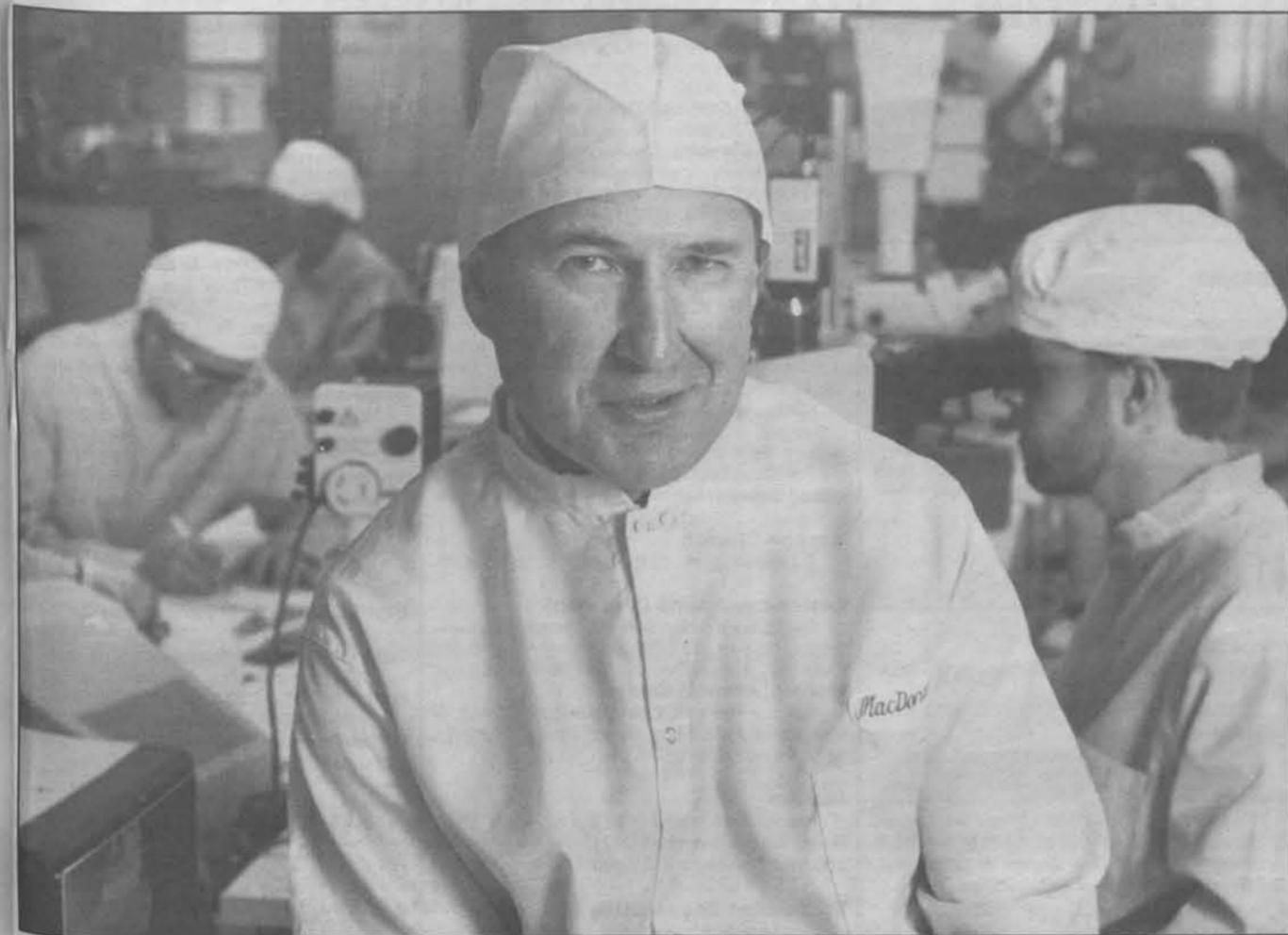
Spitzer also showed slides of images captured by the Hubble Space Telescope, now in orbit around Earth. The talk, "Through Time and Space With the Hubble Space Telescope," was part of the Thomas Gold Lecture Series sponsored by the department of astronomy.

Spitzer, 80, was a pioneer of the concept of an orbiting telescope that would give astronomers a window to the past — 14 billion years or so, the estimated age of the universe.

A large, permanent observatory in space, serviced by astronauts, was first proposed by Spitzer in 1946. The concept was approved by Congress in 1977, culminating in the launch of the Hubble Space Telescope in 1990. Astronauts refurbished its optics in 1994, and now the instrument beams images of galactic objects to Earth for study.

Spitzer showed the audience how the space telescope is yielding new information about black holes — objects with gravity so strong not even light can escape. An image taken with the telescope's faint object spectrograph shows evidence of a black hole at the center of galaxy M87.

"There is a massive something in the galactic center," he said, "with a mass about two billion times that of the sun. Well, it's too small an area to fit two billion suns. We suspect it's a black hole."



Adriana Rovers/University Photography

Professor Noel MacDonald poses in the Cornell Nanofabrication Facility, of which he was named director.

## MacDonald named nanofabrication lab director

By Larry Bernard

Noel C. MacDonald came to Cornell in 1984 largely because of a laboratory here that interested him: the National Research and Resource Facility for Submicron Structures.

For the past decade, MacDonald has been building minuscule machines, devices and instruments, many of them smaller than the diameter of a human hair.

That laboratory, known as the National Nanofabrication Facility, now becomes the Cornell Nanofabrication Facility – housed in Knight Laboratory – and MacDonald becomes its director.

“One of the major reasons I came to Cornell was the existence of this facility,” says MacDonald, a pioneering researcher in microelectromechanical systems (MEM). “I have been a strong supporter and user of the facility for the past 11 years.”

Effective Sept. 1, MacDonald, professor of electrical engineering, took on the role as the Lester B. Knight Director of the Cornell Nanofabrication Facility, replacing Harold Craighead, who stepped down this year. MacDonald had been acting director for a year in 1986. Financed principally by the National Science Foundation, the facility is the lead laboratory, with Stanford University, of a national users network for nanofabrication – the building of ultrasmall structures, devices, machines and instruments.

Other universities in the network are Howard and Pennsylvania State universities and the University of California at Santa Barbara.

The name change from “National” to “Cornell” merely reflects that a nanofabrication users network exists across the country; the lab has a national mission and continues to strongly support and service outside users, MacDonald said.

In fact, the facility currently supports more than 100 active research groups outside Cornell. It boasts about 70 active research groups from other universities and another 20 or 30 groups from Cornell. The facility is open 24 hours a day, including weekends, and its equipment is fully utilized. Just this year, it took on 31 new projects from 15 outside universities, nine industrial sponsors, six from Cornell and one federal lab.

“We are very much a national facility, and the number of outside projects has increased over the past years. We are growing as a very active node on the national network,” MacDonald said.

With a total budget of about \$4 million,

the CNF has programs that span microelectronics and integrated optoelectronics, including research in silicon-based and compound semiconductors, biology and micro-mechanics, with an effort to understand the basic physics and materials of nanostructures and nanostructure fabrication.

Among the current research programs are: optical communications developed by Rome Laboratory, a U.S. Air Force lab at Griffis Air Force Base; atomic interferometers by Massachusetts Institute of Technology; tiny magnetometers by State University of New York at Buffalo; new generation of microchannel plates by a Massachusetts company, Galileo

MacDonald said. “I would not have taken on the directorship if that were not the case. Under the day to day supervision of Dr. Alton Clark, the facility and the staff continue to grow in stature. As a user of the facility for eleven years, I know the level of service is first-rate.”

MacDonald will continue his research at the facility, focusing on fabricating massively parallel tip structures and microactuators for atomic-scale and molecular-scale manipulation; fabricating micro-instrumentation for nanometer-scale characterization of materials and nanostructures; and fabricating MEMS-based micro sensors.

MacDonald earned a doctorate in electrical engineering from the University of California at Berkeley in 1967, where he taught until 1968. He then joined Rockwell International Science Center, until 1970, when he joined Physical Electronics Industries Inc. as an entrepreneur, where he held several management positions, including division general manager.

He then became the Cornell director of the Semiconductor Research Corp. Program on Microstructure Sciences and Technology and professor of electrical engineering in 1984 and then was chair of the School of Electrical Engineering from 1989 to 1994.

He is a Fellow in the Institute for Electrical and Electronics Engineers (IEEE), “for contributions to the development and commercialization of the scanning Auger microprobe,” and he won IEEE’s Young Engineer of the Year Award in 1975, “for outstanding achievement in the engineering profession.”

MacDonald holds more than a dozen patents, most of them for micron- or submicron-scale mechanical structures. This year, MacDonald, with his students Y. Xu and S. Miller, produced the smallest scanning tunneling electron microscope (200 microns on a side). The device is featured in the September 1995 issue of *Scientific American*.

He has published more than 100 research papers. This year, his sabbatical year, he presented more than 20 invited papers. MacDonald supervises 14 doctoral students and several undergraduate students from applied and engineering physics, electrical engineering and theoretical and applied mechanics.

He will continue to teach and, in fact, will introduce and teach a new senior-level course on MicroElectroMechanics, available to all Cornell seniors in science and engineering. The course is scheduled for the spring semester.

**‘It truly is an excellent team here. I would not have taken on the directorship if that were not the case. Under the day-to-day supervision of Dr. Alton Clark, the facility and the staff continue to grow in stature. As a user of the facility for eleven years, I know the level of service is first-rate.’**

— Noel MacDonald

Electro-Optics; micro-mesh filters for sensors and night vision by EDTEK of Seattle; and biological uses, such as using microstructures for DNA analysis.

The facility’s growth may well become explosive in the next few years. The CNF recently received a grant of \$850,000 from the NSF for state-of-the-art technology. The grant will be used to help finance a new electron-beam lithography machine. E-beam lithography is used to make chips for electronics, such as those in computers and other consumer electronics.

“Upgrading major equipment will help us remain pre-eminent in addressing the needs of the nanostructure research community and industry,” said Alton Clark, Ph.D., associate director of the facility who runs the daily operations. “Also we can give industry a window to the future.”

MacDonald credits the CNF staff, which works with the other users, with providing a personal touch and maintaining excellence in service.

“It truly is an excellent team here,”

## CU’s United Way campaign begins with plea for help

Dear Colleagues:

The news media remind us daily of people in need throughout the world. Often less dramatic, but as important, are the needs of people much closer to home.

On a daily basis, people in our community – our neighbors – need the services of organizations such as the American Red Cross, Family and Children’s Service, Ithaca Rape Crisis, and the Special Children’s Center. These local agencies, plus 25 others, depend on support through our gifts to United Way of Tompkins County.

We, the faculty and staff of Cornell, are critical to the success of the local United Way campaign. We are considered the “big kid on the block” – we are expected to raise more than one-third of the money raised in the county.

While we can be proud of what we have contributed in past years, we cannot take great pride in the fact that only 30 percent of Cornell employees contributed to United Way last year. I find it hard to believe that each of us cannot find at least one of the United Way agencies that we can support. Cornell’s goal for 1995 is \$510,000. Can we target for, and attain at least 60 percent participation this year? I think we can.

The 1995 theme is “Reaching those who need help . . . Touching us all.” This statement definitely rings true when we realize that more than 1,100 of the 51,900 Tompkins County residents who received assistance from United Way agencies last year were our fellow Cornell employees.

When you receive your pledge card this week, remember that your gift can make a difference in the lives of people in your community, and please give generously.

Thank you.

Alan G. Merten  
Cornell Campaign Chair

## Burns receives society’s award

Joseph A. Burns, the Irving Porter Church professor of engineering and of astronomy, was awarded the Harold Masursky Meritorious Service Award



Burns

for 1994 by the American Astronomical Society’s Division for Planetary Sciences (DPS).

The award was made in recognition of Burns’s many activities on behalf of planetary science. He is well known for his role

as editor of *Icarus*, *The International Journal of Solar System Studies*, a position he has held for more than 15 years.

Burns has chaired and served on numerous committees that serve planetary science. He was chairman of the local arrangements committee for the 15th DPS meeting, served on or has been chairman of the organizing committee for nearly a dozen international meetings, served the DPS directly on the committee and as chairman and served on a dozen working groups or advisory committees for NASA.

Burns has just ended a three-year term as chair of the National Research Council’s Committee on Planetary and Lunar Exploration and six years on its Space Studies Board.

He also is a member of the International Astronomical Union, and is a fellow of the American Geophysical Union, a corresponding member of the International Academy of Astronautics and a foreign member of the Russian Academy of Sciences.

# CALENDAR

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films," Robert Grubbs, California Institute of Technology, Sept. 21, 4:40 p.m., 119 Baker.

Baker Lectures: Graham R. Fleming from the University of Chicago will give the Baker Lectures on "Ultrafast Spectroscopy." His first lecture will be Sept. 26 at 4:40 p.m. in Schwartz Auditorium of Rockefeller Hall. He also will speak Sept. 28 at 11:15 a.m. in 119 Baker.

## Floriculture & Ornamental Horticulture

"Magazines, Books and Horticulture," Robert Mower, Sept. 21, 12:20 p.m., 37 Plant Science Building.

## European Studies Institute

"The Metamorphosis of Zorba: Theodorakis and the Musical Politics of Greece," Gail Holst-Warhaft, classics and comparative literature, Sept. 22, 12:15 p.m., 153 Uris Hall.

## Japan America Society

"Bridging Over the Pacific," Jane Law, Asian studies, Sept. 21, 5:30 p.m., 400 Riley Robb Hall.

## Near Eastern Studies

"The Role of the Hurrians in the Civilizations of the Ancient Near East," Gernot Wilhelm, Julius-Maximilians University, Wurzburg, Sept. 22, 3 p.m., 374 Rockefeller Hall.

## President's Council of Cornell Women

Sheryl WuDunn '81 and Nicholas Kristof, journalists for *The New York Times*, will lecture Sept. 26 at 5 p.m. in Alumni Auditorium, Kennedy Hall.

## Professors-at-Large

Greek-Chinese Comparative Seminar on approaches to the physical world. Discussion of "The Myth of the Naturalists," Nathan Sivin, University of Pennsylvania, and "Why Elements?" Geoffrey E.R. Lloyd, Cambridge University, Sept. 22, 4:30 p.m., 122 Goldwin Smith Hall.

## Russian Literature

A lecture series in Russian, "Eschatological Motives in Russian Literature (18th Through the Beginning of the 20th Century)," will be given by Oleg Proskurin of Moscow State Pedagogical University at 3:30 p.m. in 177 Goldwin Smith Hall. The topic for Sept. 26 is "Alexander Pushkin and Eschatology."

## Society for the Humanities

"Authenticity: A Divided Ideal," Nikolas Kompridis, Concordia University, Montreal, Sept. 27, 4:30 p.m., Guerlac Room, A.D. White House.

## Southeast Asia Program

"Language Death and Research Opportunities," John Wolff, director, Southeast Asia Program, and linguistics professor, Sept. 21, 12:15 p.m., Kahin Center, 640 Stewart Ave.

"Misconceptions of Thai Buddhism," Kamala Tiyanich, SEAP visiting fellow, Sept. 28, 12:15 p.m., Kahin Center, 640 Stewart Ave.

## Women's Studies

A panel discussion on the Beijing Conference will



1995 Jon Reis/PHOTOLINK

Edward Murray and David Borden will give a two-piano recital celebrating American popular song Sept. 23.

be held Sept. 22 from 3:30 to 5:30 p.m. in the ILR Faculty Lounge.

# readings

## CUSLAR

Daisy Zamora, a former Nicaraguan revolutionary and one of Latin America's most acclaimed poets, will read from her recently translated work *Clean Slate* (Curbstone Press, 1995) on Sept. 21 at 8 p.m. in Kaufmann Auditorium of Goldwin Smith Hall.

# religion

## Sage Chapel

Provost Don Randel will give the sermon Sept. 24 at 11 a.m.

## African-American

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

## Baha'i Faith

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

## Catholic

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

## Christian Science

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

## Episcopal (Anglican)

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

## Friends (Quakers)

Sundays, 11 a.m., meeting for worship in the Edwards Room of Anabel Taylor Hall. Discus-

sions most weeks at 9:50 a.m., 314 Anabel Taylor Hall.

## Jewish

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

Friday Services: Conservative, 6:15 p.m., Founders Room, Anabel Taylor Hall; Reform, 6:15 p.m., Chapel, ATH; Orthodox, Young Israel, call for time, 272-5810).

Saturday Services: Orthodox, 9:15 a.m., Edwards Room, ATH.

Rosh Hashana: Sept. 24-26, all services in Anabel Taylor Hall.

• Conservative: Auditorium, Sept. 24, 6:30 p.m.; Sept. 25, 10 a.m. and 7 p.m.; Sept. 26, 10 a.m.

• Reform: Sept. 24, 8:30 p.m., Auditorium; Sept. 25, 10 a.m., Chapel.

• Orthodox: One World Room, Sept. 24, 6:40 p.m.; Sept. 25, 9 a.m., 6:35 Mincha/7:45 p.m. Ma'ariv; Sept. 26, 9 a.m.

Tashlich: Sept. 25, 4:30 p.m., at the creek by Willard Straight Hall.

## Korean Church

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

## Latter-day Saints (Mormon)

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

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

## Muslim

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

## Protestant Cooperative Ministry

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

## Sri Satya Sai Baba

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

## Zen Buddhist

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

# seminars

## Agricultural, Resource & Managerial Economics

"Heads I Lose, Tails You Win: An Appraisal of Time Preference and Abatement Cost Methodology in International Climate Policy," Neha Khanna, ARME, Sept. 22, 1 p.m., 401 Warren Hall.

## Applied Mathematics

"From de Casteljaou Subdivision for Bernstein-Bezier Representation of Curves to Wavelets," Charles Micchelli, IBM Thomas J. Watson Research Lab, Sept. 22, 3 p.m., 310 Rhodes Hall.

## Astronomy & Space Sciences

"The Gamma-Ray Universe as Revealed by the Compton Observatory," John Mattox, University of Maryland, Sept. 21, 4:30 p.m., 105 Space Sciences Building.

## Biochemistry

"Actin-Based Motility of Intracellular Bacterial Pathogens," Juliet Theriot, Whitehead Institute, Sept. 22, 4 p.m., large conference room, Biotechnology Building.

## Biophysics

"Crystallography of Proteins," Wayne Hendrickson, Columbia University, Sept. 27, 4:30 p.m., 700 Clark Hall.

## Chemical Engineering

"Rheology and Ordering of Block Copolymers," Ramanan Krishnamoorti, materials science & engineering, Sept. 26, 3:45 p.m., 165 Olin Hall.

## Ecology & Systematics

"Discovering Early Terrestrial Ecosystems," William Shear, Hampden-Sydney College, Sept. 27, 4 p.m., A106 Corson Hall.

## Electrical Engineering

"Data Acquisition Systems With User Configurable Hardware," Geoff Brown, electrical engineering, Sept. 26, 4:30 p.m., 219 Phillips Hall.

## Family Life Development Center

"Risk, Relationships and Reorganizations," Patricia Crittenden, Family Relations Institute, Sept. 26, noon, EB17A Martha Van Rensselaer Hall.

## Fruit & Vegetable Science

"Continuous Vegetable Production Through the Wet and Dry Seasons of Bangladesh," Josh Tsujimoto, Sept. 21, 4 p.m., 404 Plant Science Building.

"Research Opportunities Using Plasma Emission Spectroscopy," Lucia Tyler, Cornell Plant Tissue Analysis Laboratory, Sept. 28, 4 p.m., 404 Plant Science Building.

## Genetics & Development

"DNA and Human Evolution," Mark Stoneking, Pennsylvania State University, Sept. 25, 4 p.m., large seminar room, Biotechnology Building.

## Latin American Studies

"Public Transportation in Latin America: Challenges Facing the State and the Private Sector," Eduardo Vasconcelos, Universidade de Sao Paulo, Brazil, Sept. 26, 12:15 p.m., 153 Uris Hall.

## Materials Science & Engineering

"Some Recent Results on So-Called Interfacial Reactions," Hermann Schmalzried, University of Hannover, Germany, Sept. 28, 4:30 p.m., 140 Bldg.

## Mechanical & Aerospace Engineering

"Environmental Waves: Will Manufacturing Be Swamped?" Peter Daley, vice president, Waste Management International, Sept. 21, 4:30 p.m., 155 Olin Hall.

## Microbiology

"Peptides Versus Plants: Approaches Toward a Universally Efficacious Vaccine," Yasmin Thanavala, Roswell Park Cancer Institute, Buffalo, Sept. 22, 12:15 p.m., Boyce Thompson Auditorium.

## Neurobiology & Behavior

State of the Section Address, Andrew Basch, Sept. 21, 12:30 p.m., A106 Corson Hall. "Modulation of Aggression in Wasp Societies," H. Kern Reeve, neurobiology & behavior, Sept. 22, 12:30 p.m., A106 Corson Hall.

## Ornithology

"Project Tanager," Andre Dhondt, Lab of Ornithology, Sept. 25, 7:30 p.m., Fuertes Room, Lab of Ornithology, 159 Sapsucker Woods Road.

## Peace Studies

"Political Economy in Security Studies After the Cold War," Jonathan Kirshner, government, Sept. 21, 12:15 p.m., G-08 Uris Hall.

"Building Peace in Yugoslavia," Michael Platze, head of the U.N. Reconstruction Program for the former Yugoslavia, Sept. 21, 4:30 p.m., 11 Rockefeller Hall.

## Plant Biology

TBA, Martin Canny, Carlton University, Ontario, Sept. 22, 11:15 a.m., 404 Plant Science Building.

## Plant Pathology

"Virus Infection of Red Spruce: Lessons in Virus Ecology," John Castello, College of Environmental Science and Forestry, SUNY at Syracuse, Sept. 27, 12:20 p.m., 404 Plant Science Building.

## Sloan Program in Health Services Administration

"Decision Support Systems for Today's Healthcare Organizations," John Bojarski, KRC Corp., Sept. 21, 4 p.m., 114 MVR Hall.

## Society for the Humanities

"A Discussion of Recent Literature on Fascism," George Mosse, University of Wisconsin-Madison, and A.D. White Professor-at-Large, Sept. 26, 4:30 p.m., 201 A.D. White House.

## South Asia Program

David Pingree, Brown University and A.D. White Professor-at-Large, will give a seminar series titled "Viewing the Stars: Omens, Astrology, Magic and Science." Topics are as follows: "Mesopotamian Egypt and Greece," Sept. 25, 4:40 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall; "India and Islam," Sept. 27, 4:40 p.m., Hollis Cornell Auditorium, Goldwin Smith Hall; "The Indian Reception of Muslim Versions of Ptolemaic Astronomy," Sept. 28, 4:30 p.m., 105 Space Sciences; and "Kanakani An Indian Astrologer in Harun al-Rashid's Court," Sept. 29, 12:15 p.m., 374 Rockefeller Hall.

"The Rebirth of Siv Sena: What Drives Religious Nationalism?" Usha Thakkar, SNDT Women's University, Bombay, and Mary Katzenstein, government, Sept. 25, 12:15 p.m., G-08 Uris Hall.

## Statistics

"The Analysis of Survival Data With Immune Response," Ross Maller, University of Western Australia, Sept. 27, 3:30 p.m., 100 Caldwell Hall.

## Wildlife Science

"Destruction, Terrorism and Appalling Noise Perceptions, Constraints and New Approaches to Managing Suburban Wildlife Conflicts in Australia," Darryl Jones, Griffith University, Australia, Sept. 21, 3:35 p.m., 304 Fernow Hall.

"Ecology and Management of the Caribbean Flamingo in Yucatan, Mexico," Guy Baldassarri, Syracuse University, Sept. 28, 3:35 p.m., 304 Fernow Hall.

# symposiums

## Center for Advanced Technology in Biotechnology

Federal programs that support small-business research for government agencies and link small

Continued on page 11

# MUSIC

## Department of Music

The concert by the Berkshire Ensemble, scheduled for Sept. 22 at 8:15 p.m. in Barnes Hall, has been postponed.

Sept. 23, 8:15 p.m., Barnes Hall: David Borden and Edward Murray will give a two-piano recital celebrating masterpieces of American popular song. The evening's theme is taken from *Night and Day*, the 1932 classic by Cole Porter. All of the songs deal with daytime and nighttime themes. Borden has produced a fantasia on Lennon and McCartney's *Day Tripper*. Other tunes include *A Day in the Life*, *Teach Me Tonight*, *Just One of Those Things* and *Anything Goes*.

Sept. 23, 8:15 p.m., Sage Chapel: The Cornell Glee Club's Homecoming Concert, under new director and conductor Scott Tucker, will perform music from the 18th to the 21st centuries, including Cornell songs. A fee will be charged; for information call 255-3396.

Sept. 28, 8:15 p.m., Barnes Hall: Composer/performer Carl Stone will perform his electro-acoustic compositions.

## Bailey Hall Concert Series

Russian pianist Vladimir Feltsman will open the

92nd season of the Bailey Hall Concert Series Thursday, Sept. 21, at 8:15 p.m. His program will include *Chaconne from Partita No. 2* by J.S. Bach, the *Sonata in C Major, K.330* by Mozart and Schumann's *Carnaval*. Subscriptions for the Bailey Hall Series are on sale through Sept. 21. Single tickets for Feltsman's recital are available at the Lincoln Hall ticket office 9 a.m. to 1 p.m., Monday through Friday, or by calling 255-5144. VISA, MasterCard and CornellCard are accepted, and student discounts are offered.

## Michael Shea Quartet

The Michael Shea Quartet with special guest Mark Taylor will perform a concert of modern jazz Sept. 26 at 8 p.m. in Barnes Hall. Tickets are \$5 and will be sold at the door.

## Bound for Glory

Sept. 24: Mac Benford and Friends will perform. The show runs Sunday nights from 8 to 11, with live sets at 8:30, 9:30 and 10:30 p.m. Admission is free and is open to everyone. Kids are always welcome, and refreshments are available. Bound for Glory is broadcast on WVBR-FM, 93.5 and 105.5.

# CALENDAR

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businesses and research institutions will be explained in a workshop Sept. 21. "Funding for Small Businesses" is scheduled from 8:30 a.m. to noon at the Biotechnology Building and is planned for the business community, academics and entrepreneurs. Contact Jennifer Willet at 255-4665 for registration information.

## Cornell Real Estate Conference

The conference, "Strategies for a Restructured Industry," will be held Sept. 22. It opens with a panel discussion on the industry's future and how businesses should meet the challenges that lie ahead, starting at 9:45 a.m. in G-10 of the Biotechnology Building. The afternoon session, running from 2:15 to 4:15 p.m., will feature panel discussions on commercial real estate, income residential real estate and real estate services. For information, contact the Real Estate Council Office at 254-6174.

# theater

## Department of Theatre Arts

Oscar Wilde's *The Importance of Being Earnest* will be staged Sept. 21, 22, 23, 28, 29 and 30 at 8 p.m. and Sept. 23 at 2 p.m. in the Proscenium Theatre at the Center for Theatre Arts. Tickets are \$6 for students and seniors, \$8 for the general public. They are available at the box office at the Center for Theatre Arts, 430 College Ave. For information, contact the box office at 254-ARTS between 12:30 and 5:30 p.m. Monday through Friday or one hour prior to performances.

# miscellany

## Alcoholics Anonymous

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

## Cornell Figure Skating Club

The Cornell Figure Skating Club will hold an open house Oct. 1 from 5 to 7 p.m. at Lynah Rink. Come for free skating (bring figure skates), refreshments, a skating exhibition, a skate exchange and information about club membership. The club offers a Learn-to-Skate Program for beginners, age 5 to adult, and sessions in Dance, Freestyle and Patch for advanced skaters. Membership is open to all residents in the Tompkins County area; you need not be affiliated with Cornell to join. For more information, call 844-8797.

## Emotions Anonymous

This 12-step group that helps people deal with emotional problems meets on Sundays at 7:30 p.m. and Tuesdays at 8 p.m. at the St. Luke Lutheran Church, 109 Oak Ave., Collegietown. For more information call Ed/Karen at 273-5058.

## Immunization Clinics

Cornell students must comply with New York laws requiring all students be immunized against measles, mumps and rubella. In addition, Cornell requires all students be immunized against tetanus within the last 10 years. Gannett Health Center will hold immunization clinics as follows: Sept. 22, from 1 to 3 p.m.; Sept. 26, from 1:30 to 3:30 p.m.; Sept. 27, from 9:30 to 11:30 a.m.; and Sept. 29, from 1 to 3 p.m. No appointment is necessary. Cost of the immunizations will vary depending on the vaccines needed. Students who fail to meet immunization requirements by Sept. 30 will have their registrations terminated.

## Lunchtime Meditation

For beginner through experienced meditators, health educator Nanci Rose will give instruction in various techniques every Wednesday from 12:15 to 1 p.m. in the North Room of Willard Straight Hall. Open to all faculty and staff and sponsored by the ALERT Peer Education Program. For information, call Gannett at 255-4782.

## Noontime Aerobics/Fitness Classes

Come get in shape, relax and release tension Monday through Friday, 12:10 to 12:50 p.m. in the Multipurpose Room of the Field House. The fee is \$45 per semester. For more information call Nancy Cool at 387-5726.

## Tai Chi Chuan Classes

Tai Chi Chuan, Chinese martial art done for health and self-defense, and Tai Chi Chi Gung exercises, taught by Kati Hanna '64. Meets Mondays and Thursdays starting Sept. 25 in the

Edwards Room of Anabel Taylor Hall, 5 p.m. for beginners, 6 p.m. for advanced and correction. Chi Gung exercises are offered Tuesdays and Thursdays starting Sept. 26 at noon in the Edwards Room. Open to people of all ages and physical abilities. Fee charged. Register at the first class. Wear soft, flat shoes and loose, comfortable clothing. Sponsored by CRESP. Call Kati Hanna, 272-3972, for further information.

## World Wide Web Classes

An introduction to the Internet offered by Olin\*Kroch\*Uris Library Reference Division will be held Sept. 26 from 2 to 4 p.m. in the Uris Library Instruction Center. For information contact the Olin Reference Desk at 255-4144 or e-mail olinref@cornell.edu.

## Writing Workshop's Walk-in Service

Free tutorial instruction in writing.  
 • 178 Rockefeller Hall, Sunday, 2 to 8 p.m., Monday through Thursday, 3:30 to 5:30 p.m. and 7 to 10 p.m.  
 • RPCC, Conference Room 3, Sunday through Thursday, 8 to 11 p.m.  
 • 320 Noyes Center, Sunday through Thursday, 8 to 11 p.m.

# sports

Home games are in ALL CAPS.  
Records are as of Monday.

## Women's Field Hockey (3-0)

Sept. 23, at Princeton, noon  
Sept. 24, at Lehigh, 1 p.m.

## Football (0-1)

Sept. 23, HOLY CROSS, 1 p.m.

## Lightweight Football

Sept. 22, PENNSYLVANIA, 7:30 p.m.

## Men's Golf

Sept. 22-23, at Bucknell Invitational

## Men's Soccer (3-0)

Sept. 23, at Princeton, 7 p.m.  
Sept. 27, COLGATE, 7 p.m.

## Women's Soccer (2-1)

Sept. 23, at Princeton, 11 a.m.  
Sept. 24, at Hartford, 2 p.m.

## Men's Tennis

Sept. 22-24, at Army Invitational

## Women's Tennis

Sept. 22-24, at Wm. & Mary Invitational

## Women's Volleyball (5-2)

Sept. 22-23, at Colgate Invitational  
Sept. 27, at Buffalo, 7 p.m.

## Big Red online

Info about Cornell athletics and physical education is available on the Wide World Web at <http://www.athletics.cornell.edu>.



Joyce Ravid

Sheryl WuDunn and Nicholas Kristoff, authors of *China Wakes: The Struggle for the Soul of a Rising Power*, will lecture Sept. 26.

## Pulitzer Prize-winning journalists to talk

Sheryl WuDunn '81 and Nicholas D. Kristoff, Pulitzer Prize-winning journalists for *The New York Times*, will be on campus Tuesday, Sept. 26, to promote their new book, *China Wakes* (Times Books/Random House).

The journalists will present a talk, titled "China Wakes: A Personal Story," at 5 p.m. in Alumni Auditorium of Kennedy Hall. A book signing, sponsored by the Campus Store, will take place following the talk.

WuDunn, a third-generation Chinese American who grew up in New York City, graduated with honors from Cornell and worked as an international loan officer for Bankers Trust Company for three years. She then went to Harvard Business School, where she earned her M.B.A., and to Princeton University, where she earned a master's of public administration in international affairs. Her interest switched to journalism, and she worked for several major newspapers before joining *The Times* as a correspondent in Beijing.

Kristoff grew up on a sheep and cherry farm near Yamhill, Ore., and began his re-

porting career as a high school sophomore covering agriculture for the county semi-weekly newspaper. He graduated from Harvard College in three years, Phi Beta Kappa, then studied law at Oxford University on a Rhodes Scholarship. After graduating with first class honors, he studied Arabic for a year in Cairo and joined *The Times* in 1984 as an economic reporter. He was Los Angeles financial correspondent for *The Times* before becoming Hong Kong bureau chief in 1988.

WuDunn and Kristoff, who were married in 1988 and have two sons, won the Pulitzer Prize for their coverage of the Tiananmen Square protests in China, becoming the first married couple ever to win a Pulitzer for journalism. Their China coverage also won them the George Polk Award for foreign reporting. They are now correspondents in Tokyo for *The Times*.

Their visit is sponsored by the President's Council of Cornell Women, the Asian American Studies Program, the East Asia Program and the Society for the Humanities.

## 11 named to Cornell Athletic Hall of Fame; induction is Sept. 22

Four All-Americans and a National Baseball Hall of Famer head the list of 11 new inductees who will enter the Cornell Athletics Hall of Fame during a Sept. 22 ceremony at the Statler Hotel.

The inclusion of the 18th class will swell the Hall of Fame rolls to 341 members.

Eight sports, a head coach and a trainer-assistant coach are represented in the 1995 class of inductees.

The late Hugh Jennings '04, the Big Red's first official head baseball coach while he attended Cornell Law School, is the new inductee currently enshrined in the National Baseball Hall of Fame in Cooperstown. He was inducted posthumously in 1945 after a baseball career that spanned three and a half decades.

A pair of lacrosse players from different eras, John Burnap '71 and Tom Marino '78, head the list of All-Americans. Burnap, who was also a football letterman, received All-America first-team honors in 1971, when he was named the nation's outstanding defenseman on the NCAA championship-winning Big Red team. He also received All-America honorable mention in 1979. Marino, who played on the national champion 1976 and 1977 teams, received All-America first-team honors in 1978 and second team accolades in 1977 on attack, after earning honor-

able mention as a sophomore midfielder.

The other two All-Americans were Katherine Stevenson Walker '75, a fencer who was accorded first-team honors in 1972 and was a second-team selection in 1973, and Pete Watzka '71, named third team as a baseball outfielder in 1971. Walker was a key to the Big Red winning the National Intercollegiate Women's Fencing Association Championship in both 1972 and '73, and a runner-up in 1974. Watzka, a two-time All-Eastern Intercollegiate Baseball League first-team selection, led the EIBL in batting (.419) in 1971.

Another member of the incoming class is Loretta Clarke Avent '82, a sprinter who set six school indoor and outdoor individual records, and won three outdoor Heptagonal track championships.

Ken Brown '40, a two-sport athlete, will be inducted for his prowess in baseball and football. A three-year letterman in both sports, Brown played for the gridgers who won the Ivy League title in 1939 and the diamondmen who were league champions in 1940.

A semifinalist at the 1958 NCAA wrestling championships, Carmon Molino '58 is another new Hall of Fame inductee. Unde- feated against Ivy League competition during his career (18-0), Molino was a member of the U.S. Greco Roman teams in 1962 and

1963 and the U.S. freestyle squad in 1962. In 1964 he was an alternate on the U.S. Olympic team. He also was an assistant wrestling coach at Cornell from 1967-72 and from 1974-92.

Two other members of the 1995 Hall of Fame class are basketball player Jim Bennett '41 and gymnast Brian Dawson '75. Bennett was a top scorer in the Eastern Intercollegiate League and a two-time all-star. Dawson won five Ivy League individual titles and helped the Big Red win four straight Ivy gymnastics team titles from 1972-75. He placed eighth in the vault at the 1975 NCAA championships.

The final new inductee is Tom McGory, who served both as a trainer and assistant baseball coach. McGory was appointed assistant trainer at Cornell in 1949 and this was the beginning of a 33-year career on the Big Red athletic staff. In 1967 he became the head trainer and held this position until his retirement in 1982.

The Cornell Athletic Hall of Fame was initiated in 1978 and became a reality through the thoughtfulness and generosity of the late Ellis H. Robison '18, whose gift to the University resulted in the construction of the Robison Hall of Fame Room that houses the induction plaques and Hall of Fame memorabilia in Schoellkopf Hall.

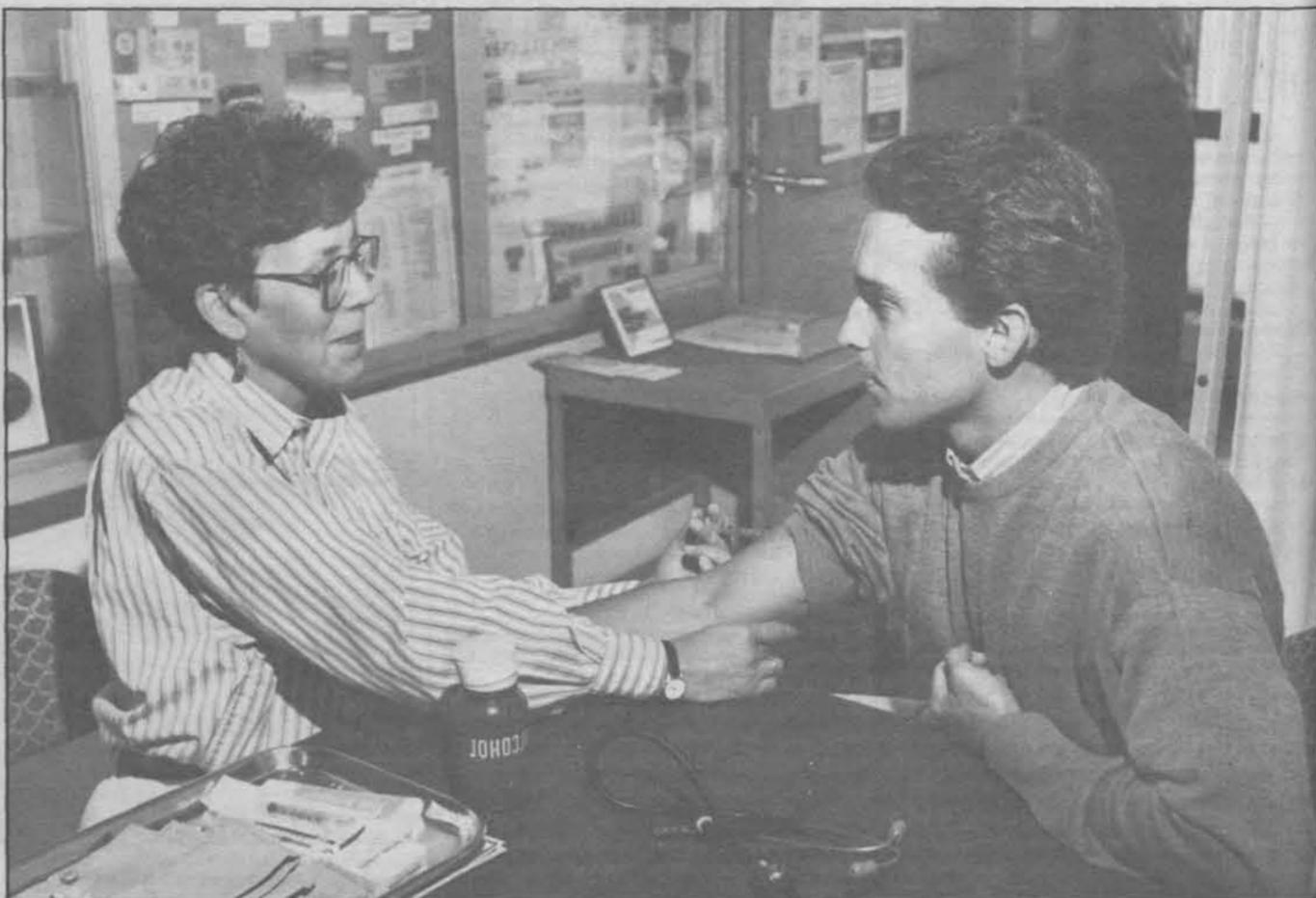
# CALENDAR

September 21 through September 28

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.



Charles Harrington/University Photography

**Pedro Nueno, a graduate student in engineering, receives a vaccination from Cathy Reynolds, LPN, at the Gannett Health Center Sept. 13. Students must comply with New York laws and Cornell's requirements regarding measles, mumps, rubella immunizations and tetanus shots by Sept. 30 or their registrations will be terminated. See the Miscellaneous listings for Gannett's immunization clinics; appointments are not necessary.**

## dance

### Cornell International Folkdancers

Open to the Cornell community and the general public. All events are free unless noted. Beginners are welcome. No partner necessary.

Sept. 24, North Room, Willard Straight Hall: Hungarian and other dances taught by Leon Harkleroad, 7:30 p.m.; open dancing and requests, 8:30 p.m.

### Cornell Jitterbug Club

The following classes are being offered:

- Basic jitterbug/swing, 6-week series starting Sept. 21 at 8 p.m., Trumansburg Conservatory of Fine Arts. Cost: \$40 single, \$70 couple (plus membership to TCFA)
- Basic jitterbug/swing, 6-week series starting Sept. 26 at 7:15 p.m., Edwards Room, Anabel Taylor Hall. Cost: \$36 in advance, \$42 at the door.
- Intermediate jitterbug, 6-week series starting Sept. 26, 8:30 p.m., Edwards Room, ATH. Cost: \$36 in advance, \$42 at the door.
- Basic lindy hop, 6-week series starting Sept. 27, 7:30 p.m., 209 N. Aurora St. Cost: \$36 in advance, \$42 at the door.

### Israeli Folkdancing

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

- "Light and Shadow: Mezzotints From the 17th Century to the Present," through Oct. 14.
- "Cornell Art Department Faculty Exhibition," through Oct. 15. This annual exhibition is a wide-ranging exploration of the great variety of visual expression currently being produced at Cornell.
- "Augustus Vincent Tack: Landscape of the Spirit," through Oct. 22.
- "Indian Miniatures and Photographs," through Oct. 22.
- "African Art From Cornell Collections," through Oct. 22.
- "The Marquess Collection of American Medals," through Nov. 5.

### Hartell Gallery

Architecture models by students of Mark Cruvellier, Sept. 24 through 30, 9 a.m. to 5 p.m., Sibley Dome.

### Willard Straight Gallery

A photography exhibit, "Alternative Visions: A Project in Mutual Learning," is on view through Sept. 30 in the Willard Straight Hall Art Gallery.

## 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, 9/21

"Crumb" (1995), directed by Terry Zwigoff, with R. Crumb, 7 p.m.  
 "Dingo" (1991), directed by Rolf de Heer, with Miles Davis and Colin Friels, 9:30 p.m.

### Friday, 9/22

"French Kiss" (1995), directed by Lawrence Kasdan, with Meg Ryan and Kevin Kline, 7 p.m., Uris.  
 "Ermo" (1995), directed by Zhou Xiaowen, 7:15 p.m.  
 "Crumb," 9:30 p.m.  
 "Die Hard With a Vengeance" (1995), directed by John McTiernan, with Bruce Willis and Samuel L. Jackson, 9:30 p.m., Uris.  
 "The Sinister Urge" (1960), directed by Edward D. Wood, midnight.

### Saturday, 9/23

"Die Hard With a Vengeance," 7 p.m., Uris.  
 "Crumb," 7:15 p.m.  
 "French Kiss," 9:45 p.m., Uris.  
 "Ermo," 9:45 p.m.  
 "The Sinister Urge," midnight.

### Sunday, 9/24

"French Kiss," 4:30 p.m.  
 "Our Hospitality" (1923), directed by Buster Keaton and Jack Blystone, with Keaton and Natalie Talmadge, 7 p.m.  
 "Birth of a Nation" (1915), directed by D.W. Griffith, presented by Pentangle, 7:30 p.m., Uris, free.  
 "Hyenas" (1992), directed by Djibril Diop Mambety, 9 p.m.

### Monday, 9/25

"Hyenas," 7 p.m.  
 "Psycho" (1960), directed by Alfred Hitchcock, with Anthony Perkins, Vera Miles and Janet Leigh, 9:30 p.m.

### Tuesday, 9/26

"Priest" (1994), directed by Antonia Bird, with Linus Roache and Tom Wilkinson, 7 p.m.  
 "Peggy and Fred in Hell" (1984-95), directed by Leslie Thornton, 7:30 p.m., CTA Film Forum.  
 "Ballot Measure 9" (1993), directed by Heather MacDonald, 9:15 p.m.

### Wednesday, 9/27

"Erotique" (1993), directed by Lizzie Borden, Monika Treut and Clara Law, 7 p.m.  
 "Priest," 9:15 p.m.

### Thursday, 9/28

"Litany for Survival: The Life and Work of Audre Lorde" (1995), directed by Ada Gay Griffin and Michelle Parkerson, 7 p.m.  
 "Forget Paris" (1995), directed by Billy Crystal, with Billy Crystal and Debra Winger, 9:45 p.m.

## graduate bulletin

• Dissertation and thesis seminars will be

held in the Morison Seminar Room, Corson/Mudd Hall, 2 p.m., Monday, Oct. 16, for master's theses and Tuesday, Oct. 17, for doctoral dissertations. The thesis adviser will discuss preparing and filing theses and dissertations; students, faculty and typists are encouraged to attend.

• **Fellowships for 1996-97:** Application forms are available now in the Graduate Fellowships Office, Sage Hall, for: *Hertz Graduate Fellowship.* Available to U.S. citizens (or applying for citizenship) in the applied physical sciences. Award is \$17,000 stipend plus \$12,000 tuition, renewable; Cornell provides remainder of tuition. Deadline is Oct. 20, 1995.

Applications are available now in the World Area Programs offices for:

*Fulbright Hays Fellowship.* Completed applications are due Oct. 13 in Graduate Fellowships Office.

Applications for the following fellowships will be available in the Graduate Fellowships Office, Sage Hall, about Sept. 29:

*National Science Foundation Graduate Fellowships and NSF Minority Graduate Fellowships.* Applicants for these three-year awards must be U.S. citizens and incoming students in the biological, physical or social sciences. Annual stipend of \$14,400, tuition payment of \$8,600; Cornell provides remainder of tuition. Deadline is Nov. 6.

*Howard Hughes Medical Institute Pre-Doctoral Fellowships in the Biological Sciences.* Annual stipend of \$14,500 and \$14,000 cost-of-education allowance; five year award. Deadline is Nov. 3.

*Ford Foundation Predoctoral Fellowships for Minorities.* Award of \$12,000 stipend plus \$6,000 tuition, renewable up to three years. Cornell provides remainder of tuition. No more than 30 semester hours of graduate study. Dissertation level fellowships with higher stipends also are available. Deadline is Nov. 3.

## lectures

### Architecture

Roger Connah, filmmaker, videographer and architecture scholar, will give the Preston H. Thomas Memorial Lectures, Sept. 25-28, 5:30 p.m., 200 Baker Lab. Connah will give four lectures: "Film and Architecture: Warnings Against Ourselves," Sept. 25; "Photography and Architecture: From Jameson to William Gibson Without Passing J.G. Ballard," Sept. 26; "Drawing and Architecture: From the Little Prince to Roland Barthes and Back Again," Sept. 27; "Language and Architecture: Humphrey Bogart Meets Maurice Blanchot," Sept. 28.

### Chemistry

Aggarwal Lectures in Polymer Science: "The Use of Transition Metal Catalysts for the Ring-Opening Metathesis Polymerization of Cyclic Ole-

## Photography exhibit on view at Straight

A photography exhibit titled "Alternative Visions: A Project in Mutual Learning" is being shown in the Willard Straight Hall Art Gallery until Sept. 30. The exhibit is co-sponsored by the Urban Semester Program of the College of Human Ecology, the Cornell Public Service Center and the Banana Kelly Community Improvement Association.

The Alternative Visions project goals were to provide six Cornell students an opportunity to mentor twelve 8-to-12-year-old, after-school-program children. The students were asked to create an exhibit of photographs that portray community-building and

to include a narrative about this process.

The hope of program leaders was that the traditional roles would be reversed, and the children would share their rich and deep understanding of their community and neighborhood. The exhibit represents some of the knowledge that the Banana Kelly children shared with the Cornell students involved in the program.

For more information about the program, contact the Cornell Urban Semester Program, Student Resource Center, Martha Van Rensselaer N138, Ithaca, NY 14853, 255-1846.

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