

Cornell CHRONICLE

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Former President Bush's salute in China's parliament brings cheers from Cornell delegation in Beijing

BY BLAINE P. FRIEDLANDER JR.

BEIJING—Former U.S. President George H.W. Bush saluted Cornell and President Hunter R. Rawlings on Nov. 16 before a large international audience at the 2005 Beijing Forum held in China's parliament, the Great Hall of the People.

"I also want to salute one of our great universities in the United States – Cornell University," Bush said, also acknowledging Rawlings. His remarks were met by loud cheers and applause from the Ithaca delegation of alumni, faculty and staff in attendance. "You can see that President Rawlings brought six people with him and they're all clapping for him out there," Bush joked. "We salute you, sir, and we're just delighted you're participating in this forum."

Bush's remarks preceded the keynote address delivered by Rawlings to the forum, an academic summit on Chinese and

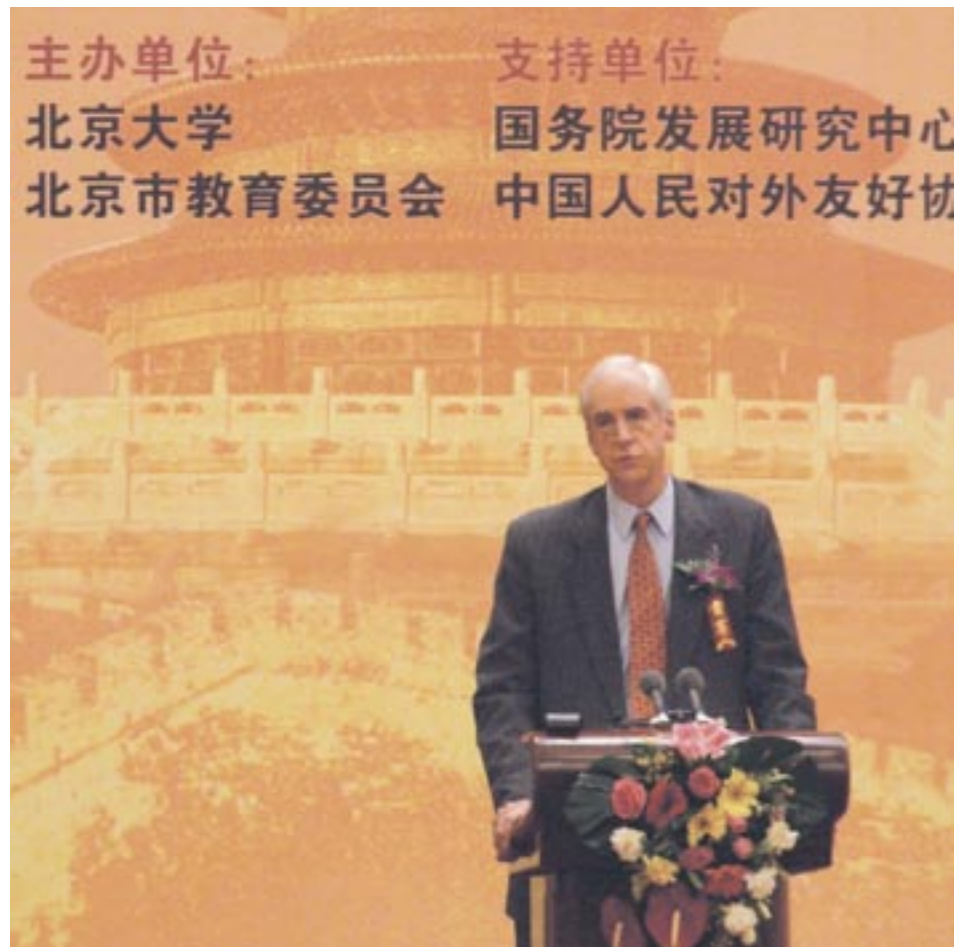
Asian cultural and economic issues, organized by Peking University. Rawlings emphasized the role that higher education is playing in China's aspirations for the future.

A day earlier, on Nov. 15, Rawlings formally signed an academic partnership with Peking University President Xu Zhihong. This puts the final Beijing piece of Cornell's new China and Asia-Pacific Studies (CAPS) program into place.

In 1974 former President Bush was sent to China as chief of the U.S. Liaison Office in Beijing. "Thirty years ago, China was isolated, regimented, there was little light at night and the body language of the Chinese people was guarded," he said. "Now China is swept up in diversity, more confident, more prosperous, it's a happier place. So much has changed."

Bush also acknowledged the presence of Robert M. Gates, president of Texas A&M

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BLAINE P. FRIEDLANDER JR./CORNELL UNIVERSITY

Cornell President Hunter R. Rawlings delivers his keynote address in front of a poster for the 2005 Beijing Forum at the Great Hall of the People, China's parliament building, Nov. 16.

Seed grants encourage collaboration between Cornell and Weill Cornell

BY KRISHNA RAMANUJAN

Applying nanotechnology to create microcatheters for medical use and developing new computational and imaging techniques to help doctors better predict the malignancy and aggressiveness of tumors. These are just two of a dozen projects promoting collaboration between faculty at Cornell's Ithaca campus and Weill Cornell Medical College (WCMC) in New York City selected for intercampus grants.

The projects, chosen from 38 proposals, each will receive a one-year, \$50,000 seed grant this year. Designed to encourage cross-campus interactions between

researchers, projects must have at least one faculty member from each campus.

"The Cornell-Ithaca and Weill Medical College faculty response to the 2005 Seed Grant initiative clearly demonstrates the diversity of intercampus collaborative synergies that exist within our university," said Richard Coico, Cornell's vice provost for inter-campus affairs and a professor of microbiology and immunology at WCMC. "Cornell's brightest and most creative scientists and educators have identified collaborative partners at each campus and defined projects that will undoubtedly generate new knowledge and create

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As power bills soar, Cornell is working to trim energy usage

The Cornell campus is facing a winter of challenge as energy costs soar. Over the next few weeks, the Chronicle will be presenting stories showing the extent of rising costs, and how the Cornell community can help to keep them under control.

BY LAUREN GOLD

It's 12:45 p.m. on a Thursday afternoon, and W.S. (Lanny) Joyce, a manager in the Utilities and Energy Management department at Cornell, is teaching a class on conservation. Call it, maybe, Saving Energy at Cornell 101.

Joyce is proud of the university staff's accomplishments in reducing energy use and associated environmental impacts. And although

a single class (it's really Science and Technology Studies 429) is not nearly enough to tell the story of Cornell's ongoing conservation efforts, it is a start. So Joyce, Eng. '81 sets up his PowerPoint and rewinds to the end of the 19th century.

Cornell has a long tradition of making energy history – starting back in the 1880s, when an innovative water-

powered dynamo was built in Fall Creek Gorge to light campus build-
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MATTHEW FONDEUR/UNIVERSITY PHOTOGRAPHY

Olin Library, McGraw Tower, Uris Library and the Arts Quad, viewed at sunset Oct. 30. McGraw Tower was illuminated with orange for the Halloween and fall season.

Chronicle schedule

There will be no issue of the Cornell Chronicle next Thursday, Nov. 24, due to the Thanksgiving holiday.

The Chronicle will return Thursday, Dec. 1, and there will be two additional issues in December - Dec. 8 and Dec. 15. Production of the printed Chronicle then takes a break until Thursday, Jan. 19, due to the holidays and the semester break.

In the Chronicle's next edition (Dec. 1), look for a new FOCUS on Cornell alumni page, the continuation of the series on energy savings at Cornell, full coverage of the rest of President Hunter R. Rawlings' trip to China, and a Mars rover update.

Visit the Chronicle Online, at <http://www.news.cornell.edu>, for regular updates of news, feature stories and more.

Where to find the Chronicle

The Cornell Chronicle is available at nearly every academic building and facility on campus; it can also be found at many other off-campus locations.

The 100 on-campus locations include the Trillium Restaurant in Kennedy Hall (by entrance), Day Hall (rack by front entrance), the Cornell Store (middle level), the Dairy Bar (front entrance), Uris and Olin libraries (periodicals section), Mann Library (front entrance), Helen Newman Hall (near fitness center entrance), Robert Purcell Community Center (main entrance), Appel Commons (main entrance), Duffield Hall (near the atrium), Schurman Hall (lobby), Willard Straight Hall (Ho Plaza entrance) and Noyes Community Center (main entrance).

Off-campus locations include the Cornell News Service, 312 College Ave.; the Cornell Office of Publications and Marketing, East Hill Plaza; Mayer's, 318 E. State St.; P&C Foods, East Hill Plaza; Tops Market, 614 S. Meadow St.; Wegmans, 500 S. Meadow St.; the Tompkins County Airport (Wanderlust Café); Ludgate Farms, 1552 Hanshaw Road; and numerous area hotels.

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Construction closes walkway



KRISHNA RAMANUJAN/CORNELL NEWS SERVICE

On Monday, Nov. 14, the Life Sciences Technology Building construction project entered a new phase. The contractor will extend the site westward to start work on the area between the Biotechnology Building and Corson Hall. The main north-south walkway from Tower Road toward Lynah Rink now will be closed until spring 2006.

First Andrei Sakharov Prize for human rights goes to Cornell physicist and former Soviet gulag prisoner Yuri Orlov

BY LAUREN GOLD

In stature, Yuri Orlov, 81, is small. But in every other dimension, he is a giant.

Orlov, a senior scientist in Cornell's F.R. Newman Laboratory for Elementary-Particle Physics, is the first recipient of the Andrei Sakharov Prize, created by the American Physical Society (APS) to honor scientists for exceptional work in promoting human rights. The prize will be presented at the April meeting of the APS in Dallas.

As a physicist, Orlov is known for his expertise in quantum mechanics and particle accelerator design. He studied under the legendary theorist Lev Landau and others at the Physico-technical Department of Moscow University until he lost his research position in the 1950s for speaking out for democratic rights. Narrowly avoiding imprisonment, he left Moscow for the Yerevan Physics Institute in Armenia, where he finished his doctoral degree (1958) and ultimately became chief of the Laboratory of Electro-magnetic Interaction.

In 1973 Orlov returned to Moscow to a research position at the Institute of Terrestrial Magnetism and Distribution of Radio-Waves.



ROBERT BARKER/UNIVERSITY PHOTOGRAPHY

Yuri Orlov, a senior scientist in Cornell's F.R. Newman Laboratory for Elementary-Particle Physics, speaks at the reception in his honor held Nov. 10 in Clark Hall.

He co-founded the Moscow chapter of Amnesty International that year; three years later he founded the Moscow Helsinki Group, one of the first efforts in the international Helsinki human rights monitoring movement. In 1977 he was arrested by the KGB and sent to the gulag, a hard-labor camp in Siberia.

An agreement between Soviet leader Mikhail Gorbachev and President Ronald Reagan secured Orlov's release, and he emigrated to the United States in 1986. Frail and sick, he took a position in Cornell's physics department, whose faculty had lobbied for his release - and he began the long, slow process of recovery and relearning.

In 1995, Orlov was awarded the Nicholson Medal for Humanitarian Service (now called the Nicholson Medal for Human Outreach), also by the APS.

Sakharov, who died in 1989, was a Soviet physicist who became, in the words of the Nobel Peace Prize Committee, "a spokesman for the conscience of mankind."

"Most physicists with whom I have spoken believe that there could be no better recipient than Orlov for the first Sakharov Prize," said John Gillespie, APS selection committee chair and professor of physics at Lehman College, City University of New York.

At a department celebration Nov. 10 in Orlov's honor, Kurt Gottfried, professor emeritus of physics at Cornell, echoed the sentiment. "He is second only to Sakharov," said Gottfried. "If you meet any Russian émigré of the period, they would tell you that. He reached out to ethnic groups. He built broad relationships."

"He's really contributed a lot to the research of the department," said Saul Teukolsky, chair of Cornell's physics department. "Getting him here was a great asset."

Orlov, who currently divides his time between Cornell's Newman Laboratory and the Brookhaven National Laboratory on Long Island, is still active in human rights work in Russia and the United States.

For the support and friendship he has found at Cornell, he said, he is deeply grateful.

"I want to simply thank the university for your hospitality," he said. "Your patience was important for me because of issues of recovery."

"It's a little bit of a big interruption," he said of his imprisonment in the Siberian gulag. "I forgot very much. But I am fine, very much - now."

Widom, Cornell chemist for half a century, honored with special issue of Molecular Physics

BY LAUREN GOLD

Benjamin Widom, Cornell's Goldwin Smith Professor of Chemistry and Chemical Biology and a faculty member for more than half a century, is the honoree of a special issue of the journal *Molecular Physics*



Widom

published this month (Vol. 103, No. 21-23).

In the issue's foreword, journal editor Jean-Pierre Hansen and University of Oxford chemist Sir John Rowlinson call Widom "one of the most respected and influential figures in theoretical chemistry and statistical mechanics, worldwide."

Widom is perhaps best known for his work toward understanding the properties of substances near the critical point - the point at which two phases of the substance (water and water vapor, for example) lose their distinguishing features and behave as one, or at a tricritical point, where three previously distinct phases lose their separate identities. In the 1960s Widom derived so-called scaling relations, accounting for critical-point anomalies seen in experiments. His work is recognized as an important precursor to the renormalization-group theory of critical phenomena, for which Cornell colleague Kenneth Wilson was awarded the 1982 Nobel Prize in physics.

Also in the 1960s, Widom co-wrote a paper with the late Christopher Longuet-Higgins of the University of Sussex, England, which provided a clear picture of simple fluids by integrating the concept of a repulsive force between molecules (which they characterized as hard spheres) with the van der Waals principle of a weak attraction between them at intermediate distances. Widom's potential distribution theory, which allows researchers to calculate a fluid's chemical potential through computer simulation, was a major advance in the theory of fluids.

In his 51 years on the Cornell faculty (during three of which he served as chair of the chemistry department), Widom has also pioneered work on the structure and tension (surface tension) of the interface between two phases. More recently he has extended that work to include line tension, or the interface between three phases.

"Professor Widom is a towering figure in statistical mechanics of liquids, phase transitions and critical phenomena," said journal editor Hansen, who is also professor of theoretical chemistry in the University of Cambridge chemistry department. "It was quite obvious that his groundbreaking contributions more than deserved a fitting tribute in *Molecular Physics*."

Widom's recent graduate students agree. "[Widom] has time and again demonstrated that devising and understanding simple models (many of whose properties can be calculated using pen and paper) further chemical understanding," said Prabhakar Bhimalapuram, a research associate at the University of Chicago. "His work on models of microemulsions, interfaces and hydrophobic effects are testimony to this fact."

Alan van Giessen, research associate at Boston University, calls Widom "simply the best teacher I have ever come across. He has a marvelous way of taking a complicated mathematical expression and explaining it in terms of the physics of the system, such that it becomes almost obvious."

Rowlinson wrote a summary of Widom's career for *Molecular Physics*. He closed it with quiet appreciation: "This issue of *Molecular Physics* is therefore but a small additional tribute to one who has played, with unflinching good fellowship, a leading role in the theoretical chemistry and physics of our generation."

Memories and emotions about 'the American war' that continue to haunt

BY FRANKLIN CRAWFORD

On most days of the week you will find Carl Steckler, a teaching support specialist in the physics department at Cornell, dutifully attending to the details of his post in Clark Hall. But on Nov. 11, Veterans Day, Steckler was in his U.S. Marines utility uniform, delivering a presentation on his Vietnam War experience at the Tompkins County Public Library.

Steckler's presentation was part of "Teaching Vietnam: War and Culture," a variety of activities including a teachers' workshop, public talks, films and an exhibit that runs through the end of the month. Sponsored in part by the Southeast Asia Program's (SEAP) Outreach Office and the Tompkins County Public Library, the events were aimed at understanding a war that continues to exert a powerful influence on the American people and the Vietnamese people, who call it the American War.

For 13 months, Steckler served in a relatively unknown Marine operation called the Combined Action Program, deploying small units of Marines to villages in South Vietnam. With the permission of village leaders they lived near or within hamlets providing protection from hostile North Vietnamese forces, medical care and other modes of "pacification."

"The army and the Marines fought two separate wars in Vietnam," said Steckler. "The army focused on conventional warfare, with large units fighting set-piece battles.



Steckler

The Marines preferred small-unit pacification over large unit battles."

Steckler was stationed in an old French fort south of Da Nang that overlooked three villages and a river. The Viet Cong controlled much of the area on the opposite side of the river and launched occasional mortar strikes. At night the Marines conducted search and destroy patrols, engaging in frequent firefights and ambushes. The Marines also helped to build a school, providing materials and manpower and regular medical attention to local villagers. Steckler believes the Combined Action Program was successful but ill-regarded by U.S. Army Gen. Westmoreland, who disbanded it.

Today, that same model is being used in a limited capacity by Marine forces in Iraq.

Steckler's talk, held in the public library's Borg Warner Room, contrasted with an earlier discussion led by Thuy Tranviet, a Cornell language instructor, that followed a screening of "Lament of Warrior's Wife," a film exploring how North and South Vietnamese women have attempted to deal with the loss of more than 300,000 Vietnamese sons and husbands who remain missing in action. Tranviet, who is



DIVISION OF RARE AND MANUSCRIPT COLLECTIONS

from South Vietnam, sought political asylum in the United States with her family after the fall of Saigon in 1975.

"The film was very emotional for me, but I felt the discussion was effective," said Tranviet. "The audience was truly interested in understanding the sorrow of war from a Vietnamese perspective. As a Cornell outreach effort, I felt the program went very well, but I would have liked to see more people from campus in attendance."

For extended coverage of "Teaching Vietnam: War and Culture" events, see <<http://www.news.cornell.edu/stories/Nov05/vietnam.events.html>>.

Cornell Agriculture and Food Technology Park officially opens

BY JOE SCHWARTZ

A federal research agency and four new businesses will be among the first enterprises to call the Cornell Agriculture and Food Technology Park home.

Cornell University officials were joined Wednesday, Nov. 16, by government and business leaders to dedicate the new, 72-acre research park, being marketed as the Technology Farm and located next door to Cornell's Agricultural Experiment Station in Geneva. The park, a nonprofit organization that has been permitted to use the Cornell name, is designed to foster the creation of innovative technologies related to agriculture, bio-based industries and food. "Cornell University is committed to technology transfer as a potential engine



Fessenden

for economic development, both on and off campus," said Susan Henry, the Ronald P. Lynch Dean of Agriculture and Life Sciences. "Increasingly, we will partner with new enterprises involved in cutting-edge technologies in food, agriculture and the new life sciences, as well as with other universities and high-tech industries."

"The seeds of innovation are taking root at the Cornell Agriculture and Food Technology Park," stated New York state Sen. Michael F. Nozzolio (R-Fayette), a member of the park's board of directors. "This new economic engine is just beginning to deliver on its promise of bringing new businesses and jobs to the region."

The first Technology Farm tenants will include the U.S. Department of Agriculture (USDA), Berrigen Biotechnology, Cherrypharm, Terramend and Vitis Biosciences.

The Agricultural Research Service, the USDA's chief scientific research agency, will establish a new Center for Grape Genetics Research at the park, expanding

on the agency's current research unit at the Agricultural Experiment Station in Geneva. The agency is planning to begin construction in 2007 of a 59,000-square-foot research facility that will employ approximately 20 people.

All four of the new start-ups directly involve Cornell faculty members and will utilize the park's new 20,000-square-foot flexible-technology building as a place to grow new business ventures. Berrigen is a start-up business focused on the production of bio-fortified plants to improve quality and human health. Cherrypharm has been working with Cornell scientists to develop an all-natural cherry juice nutritional supplement. The company recently completed its first production run, and its founder will be creating an on-site food and beverage innovation center. Terramend is developing products that will utilize agricultural waste products for environmental remediation. Vitis Biosciences, a company with investment

from Chile, is working with Cornell to develop and sell virus-resistant grapevine rootstocks to nurseries servicing the worldwide wine industry.

"We are pleased to welcome these new partners to the Technology Farm. We look forward to working with each of them and helping them capitalize on the world-class research taking place at Cornell," said Daniel J. Fessenden, the park's executive director. "We invite other businesses, entrepreneurs and agencies to contact us to find out more about the strategic opportunities that exist at the Cornell Agriculture and Food Technology Park."

The park is the result of nearly 10 years of planning by Cornell, the city of Geneva and Ontario County. Since 1985, more than \$8 million in local, state and federal funding has been raised to complete phase-one construction of the park. The park has received considerable support from New York State Electric and Gas Corp., plus state and federal legislators.

Land-grant **Cornell**

From bullying to drugs, award-winning workshops offer insight into issues youth workers face

BY KRISHNA RAMANUJAN

Sex, drugs and alcohol. These are among the youth-oriented issues being discussed in Connecting with Kids workshops, an award-winning program run by Cornell Cooperative Extension (CCE).

The extension's workshops address a wide range of topics and challenges that young people face. As part of the university's land-grant mission to disseminate knowledge and better New Yorkers' lives, every month, local experts give presentations on a plethora of challenging issues that educators, school district administrators, day-care providers, CCE employees and others who work with youth must face regularly. The meetings are organized by educators from CCE in Herkimer, Madison and Oneida counties and the Madison County Health Department.

Since 1994, the Connecting with Kids program has covered topics including bullying, attention deficit/hyperactivity disorder, gangs, grief and helping children deal with divorce and separation, and provides participants with suggestions for handling such sensitive and difficult situations and issues. Last year alone, 450 youth workers attended Connecting with Kids workshops and used the messages to inform their work with some 40,000 children.

"The program continues to provide youth workers with up-to-date, valuable connections and information about young people so they can do their jobs better," said Terri Lanterman, Madison County CCE Community Educator in 4-H Youth Development and one of the team members who received the National Association of Extension 4-H Agents Excellence in Teamwork Award in Seattle on Nov. 2 for

their work with Connecting with Kids.

A recent workshop with Tina Dombrowski, a health educator with the Madison County health department and another of the program's team members, explored risky aspects of youth culture, including sex, drugs and alcohol. Along with Dombrowski, a panel of two teenagers answered questions from the audience. Youth who are sexually active do not find oral sex to be a big deal, Dombrowski and the teens said. One of the teen panelists commented that he would not consider oral sex the same as losing his virginity.

But Dombrowski gave a warning: "That's a concern that any adult who works with children would have, because you can get diseases through oral sex and it is a very intimate activity."

Similarly, Dombrowski said, teens have regular and easy access to drugs and

alcohol, and they do not view drugs like marijuana and ecstasy (MDMA) as being harmful or having long-term effects. "Marijuana use kills brain cells, and it's a gateway drug that sets you up for possible addiction to other drugs or alcohol," she said. She advised the adult audience to get to know children they work with and interact with them in ways that go beyond routine conversations. She advocated watching for behaviors that indicate signs of drug use, like dropping out of social groups and extracurricular activities like sports, and missing classes. Adults should be prepared to ask teens if they are experiencing problems or if they are using drugs, she added.

In another workshop, Brad Bennett, a psychologist at Clinton Therapy and Testing Center in Clinton, N.Y., discussed the psychology of bullying and strategies

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University and former director of the Central Intelligence Agency. "In the wake of the bloodiest century in history, there is greater freedom in the world. Tens of millions of people now breathe free air. Tell these kids at Texas A&M and at Cornell, or whatever school, that [for the future of China] I'm an optimist," he said.

In his keynote speech to the forum on "The Modern Research University: Intellectual Innovator and Cultural Bridge," Rawlings evoked the memory of Hu Shih, Cornell Class of 1914, the great Chinese philosopher who brought literary reform to China in the 1920s. Hu made it easier to speak and write Chinese, which improved literacy in China.

Similarly, today, Rawlings said, China is experiencing a reawakening that is spawning economic, educational, scientific and technologic expansion. "Here in Beijing, which is gearing up for the 2008 Olympics, and throughout China, the signs of development are hard to miss. By some estimates, China is likely to be the world's largest economy, surpassing that of the U.S. by 2050."

Rawlings continued: "Today, as in Hu Shih's day, higher education is playing a significant role in China's aspirations for the future, and the scale of the endeavor has expanded exponentially. In 1910, Hu Shih was one of 70 Chinese students to come to the United States on a scholarship. Today, approximately 20,000 Chinese students enter American colleges and universities each year."

China is investing heavily in education, and the number of new doctoral students jumped to 48,700 from 14,500 between 1998 and 2003. "This great expansion of higher education in China is ushering in a second Chinese renaissance," he said.

In his Nov. 15 speech at Peking University, Rawlings said that the new China studies major will provide Cornell students with an international view. "American students are notorious for not learning other languages. This is a widespread problem and a serious shortcoming in American education," Rawlings said. "I am delighted that the CAPS program will help solve this problem for its majors by enabling them to learn one of the most important and long-lived languages of the world: Chinese." Specifically, the students will learn Mandarin.

After the CAPS signing, Rawlings and part of the Cornell delegation traveled from Peking University to the China Television (CCTV) studios. There, the Cornell president and Gu Binglin, president of Tsinghua University, gave an interview to program host Bai Yansong that will be aired Nov. 18 on CCTV Channel 1. Students from Tsinghua and faculty from Cornell participated by asking questions, with most of the students' questions focusing on Cornell's admissions policies.

"This day was historic," said Rawlings during a dinner celebrating the partnership with Peking University. "Decades from now, we'll look back and see just how historic it was."



BLAINE P. FRIEDLANDER JR./CORNELL UNIVERSITY

Above: Following the China and Asia-Pacific Studies (CAPS) program agreement signing and President Hunter R. Rawlings' CAPS speech in Beijing Nov. 15, administrators, faculty members, alumni and friends from Cornell and Peking University pose for a group portrait on the Peking University campus.

Left: Cornell President Hunter R. Rawlings and Xu Zhihong, president of Peking University, sign the CAPS agreement in the East Room of the Lin Hu Xuan Building on the Peking University campus Nov. 15.



BLAINE P. FRIEDLANDER JR./CORNELL UNIVERSITY

After the signing of the China and Asia-Pacific Studies program agreement, Cornell President Hunter R. Rawlings chats with a Peking University student and describes the importance of the universities' partnership.



BLAINE P. FRIEDLANDER JR./CORNELL UNIVERSITY

Cornell President Hunter R. Rawlings and David Wippman, Cornell's vice provost for international affairs, talk to a Tsinghua University student at the CCTV Chinese television studios in Beijing Nov. 15. Rawlings was interviewed for a news program that will be aired Nov. 18 on CCTV-1.

Seed grant continued from page 1

unique, world-class student training opportunities," he said.

The projects selected for funding range from research on tuberculosis, HIV and stem cells to development of a clinical research training course for biomedical engineers, among others.

For example, Nathaniel Hupert, assistant professor of public health at WCMC, and Jack Muckstadt, professor of operations research and industrial engineering in Ithaca, are teaming up to build a biodefense model that will help

public health and emergency planners to improve allocations of patients across an area's hospitals in the aftermath of public health catastrophes.

Another award was given to develop an annual two-month clinical research training course at WCMC for Ithaca campus biomedical engineering (BME) Ph.D. students. The project, led by Yi Wang, associate professor of physics in radiology and other researchers at WCMC, and Lawrence Bonassar, associate professor in the Sibley School of Mechanical and

Aerospace Engineering and Program in Biomedical Engineering (BME) in Ithaca, will give first-year BME graduate students exposure to research encountered in clinical practice. BME students typically have strong physical or quantitative science background but tend to lack exposure to clinical health sciences.

The 12 projects include 14 researchers from the Ithaca campus and 20 from WCMC. By coincidence, among the award winners there are six principal investigators from each campus, said Coico.

"The resources have been shared very fairly," said Coico. "That in part reflects the quality of the applications we received across the board."

To be eligible, proposals must be in one of five focus areas: biodefense and public health; cancer biology; chemical biology and neuroscience; computational biology; and nanomedicine and biomedical engineering.

Funding of \$600,000 for the seed grants was shared equally by the Office of the Provost at each campus.

Cornell Theory Center starts new Microsoft pact as it seeks faculty advice for future direction

BY BILL STEELE

Under new leadership, the Cornell Theory Center (CTC) is moving in new directions and asking for advice. CTC will hold a town hall meeting Tuesday, Nov. 22, at noon in G10 Biotechnology Building, inviting members of the Cornell research community to discuss new opportunities and directions for CTC-supported computational science and engineering. "Computational science" refers to the use of computing as a tool in scientific research.

From its inception in 1984, CTC has existed to support research by providing high-end computing resources, extensive computational expertise and training in computational tools and methods. This remains the core mission of the center, said CTC Acting Director Tony Ingraffea. But informal conversations with faculty from colleges across the campus indicate the need for a more diversified, heterogeneous environment including support for a variety of operating systems, and an expansion of CTC support for research group-owned clusters, he said. The town hall meeting is intended to allow all members of the Cornell community to discuss their computational research needs and ideas for CTC's directions.

"This is an opportune time for these discussions," Ingraffea said. "The center is concluding a very successful large-scale partnership with Microsoft, during which we successfully proposed that the company create a high-performance computing (HPC) division. This partnership allowed CTC to provide three very powerful HPC clusters to Cornell researchers at no cost to Cornell." Although Microsoft is now devoting significant funds to its own in-house development of Windows HPC, Microsoft president Bill Gates announced at the Supercomputing 2005 Conference Nov. 15 that Cornell would be the site of one of 10 new Institutes for High-Performance Computing the company will fund. The institutes, Gates said, will help to guide ongoing software research and product innovation at Microsoft.

CTC was born in 1985 as one of five academic supercomputing centers funded by the National Science Foundation (NSF) to make high-performance computing, previously the province of government and industry, available for academic research. While the other four centers were built around "linear" supercomputers like the Cray, Cornell opted from the beginning to experiment with parallel computing, starting with multiprocessor machines from IBM. Parallel computing allows very large computational tasks to be performed quickly by breaking them into many pieces that are pro-



ROBERT BARKER/UNIVERSITY PHOTOGRAPHY

From left, Johannes Gehrke, Keshev Pingali and David Shalloway, associate directors of the Cornell Theory Center (CTC), in front of some of the vertically mounted servers that make up the V3 cluster in Rhodes Hall (see story, below).

cessed simultaneously on an array of processors.

In the winter of 1997 NSF funding ended, but CTC continued to serve Cornell researchers, by then with a 160-processor IBM computer. Soon, working with Microsoft, Dell, Intel and other industrial partners, CTC pioneered the development of high-performance "cluster" computers made by linking off-the-shelf computers in parallel. Cornell research improved and advanced the use of clusters using the Windows operating system, which are now in use all over the world for business and academic computing.

With the installation of its newest cluster, Velocity 3 (see story, this page), CTC has begun to decommission its early

Windows clusters (Velocity 1 and Velocity Plus) to make room for new clusters running other operating systems.

The new cluster was purchased with CTC funds, according to the center's executive director, Linda Callahan, who added that another such upgrade in the near future would be difficult to pull off.

"CTC's future priorities will be established in concert with faculty input," said Robert Constable, dean of Computing and Information Science (CIS), of which CTC is a unit. "The center has the flexibility to reinvent itself to meet researchers' requirements; we need to be sure we are

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ROBERT BARKER/UNIVERSITY PHOTOGRAPHY

Professors Tony Ingraffea, left, now acting director of the Cornell Theory Center, and Jon Guckenheimer, now associate dean of Computing and Information Science, in the machine room on the seventh floor of the Cornell Theory Center, Rhodes Hall.

Ingraffea, Guckenheimer strengthen Cornell's high-performance computing management team

BY BILL STEELE

Two leading members of Cornell's engineering and mathematics faculty have been named to top positions in computational science and engineering at the university.

Tony Ingraffea, the Dwight C. Baum Professor of Engineering and previously an associate director of Cornell Theory Center (CTC), has been appointed acting director of CTC. He will serve until a new director

is selected in a national search being led by computer science Professor Charles Van Loan, the J.C. Ford Professor of Engineering and chair of the Department of Computer Science.

John Guckenheimer, professor of mathematics, has been appointed associate dean of the Faculty of Computing and Information Science (CIS), with a primary responsibility to oversee CTC.

"We are delighted to announce that Tony

Continued on page 12

New Windows cluster is CTC's fastest supercomputer yet

BY BILL STEELE

The Cornell Theory Center (CTC) has fired up its newest and fastest high-performance computer (HPC), called the Velocity-3 Cluster, or V3. The new machine consists of 180 Dell Blades – machines designed to be servers.

"Blades" are servers that mount vertically in a rack to save space. Each blade contains two processors, creating a machine with a total of 360 parallel processors running the Windows Server 2003 operating system.

Early uses of the V3 cluster have included simulations of the formation of defects in thin metal films and modeling of the process by which liquids turn to solids.

"Because our HPC operations have been growing so rapidly, and our Dell machines seem to never quit, we began to run out of space on our machine floor for new cluster deployments," said Robert Constable, dean of the Faculty of Computing and Information Science. "We looked at blade configurations. Dell's cost was in line, and their service to Cornell has been excellent." Dell, Microsoft and Verari Software Systems worked closely with CTC in building the new cluster.

V3 is just one of several clusters operated by CTC, which now has a total of 1,500 processors arranged in a variety of configurations. These include two clusters -- one with 384 processors and another with 128 -- dedicated to computational biology, and one called ADDM (Advanced Digital Materials Module), belonging to

the Computational Materials Institute, with 340 processors. The ADDM cluster, installed at the same time as V3, can be combined with V3 to form Cornell's fastest supercomputer yet.

The old V2 cluster, with 256 processors, was benchmarked at 1.5 teraflops (trillion floating point operations per second), enough to make it one of the top 100 supercomputers in the world, and the only Windows-based cluster in the top 500. The new combined cluster boosts the speed to 2.1 teraflops.

CTC's first operational cluster, consisting of 256 Pentium III processors, was built in October 1999. Originally known as the AC3 Velocity Cluster, it was renamed V1 after other clusters came online. CTC now uses about 1,250 of its processors in operational clusters. The rest will be used for experimentation, according to Acting Director Tony Ingraffea.

One, Vplus, is currently being used as an experimental Linux cluster, in preparation for the conversion of Velocity 2 to Linux in early 2006. The goal is to make an HPC facility available to researchers who already have demanding applications written for Linux. CTC also is experimenting with clusters of Solaris workstations, and the Agricultural Research Service (ARS) of the U.S. Department of Agriculture is funding the creation of a "small" (36 processors) cluster of Apple G5 Xserve servers, to be hosted by CTC and used by the USDA-ARS US Plant, Soil and Nutrition Laboratory at Cornell for research on gene regulation in bacterial plant pathogens.

Cornell Books

New book explores the growing science of false memory

Children and adolescents – even adults for that matter – may report with all sincerity that they had been sexually abused in the past or witnessed a murder or other crimes. But sometimes the person, though earnest, is wrong: The memory is a false one.

Having false memories – “recalling” events that did not happen – is a real phenomenon that is vitally important to law and medicine. Since it has only been readily recognized since the early 1990s, the science of false memory is a complex and burgeoning field.

A new book, “The Science of False Memory” (Oxford University Press, 2005) by two Cornell University professors, Charles Brainerd and Valerie Reyna, brings together and makes accessible to the general reader the decade or so of intensive research on false memory.

“False memories are a hot topic in psychological research and a major issue for society,” says Daniel L. Schacter, professor of psychology at Harvard University. “‘The Science of False Memory’ provides a compelling scholarly analysis that ranges from laboratory studies to cases in the courtroom. Written by two leaders in the field, this book is must reading for memory researchers, psychologists and anyone else interested in understanding why people sometimes remember events that never happened.” And Elizabeth Loftus, of the University of California, adds, “This is the definitive work on false memories ... everything you might want to know about them and more.”

“In the past few years, there’s been a broad-based outpouring of research on the circumstances in which normal people are possessed of positive, confident memories of things that never happened to them,” says Reyna, professor of human development at Cornell. “The flood of new data has stimulated comparable advances in our theoretical understanding of these false-memory phenomena, though this

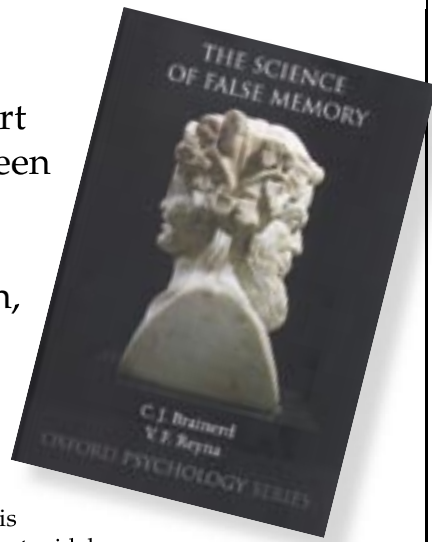
fact is not yet widely appreciated.”

To further those understandings among more people, the book explores four major topics: theories of false memory, adult experimental psychology of false memory, false memory in legal contexts and false memory in psychotherapy.

Part I covers the history of the science of false memory, reviews the varied methods that have been used to study false memory and discusses research regarding age changes in false memory and theories that have been used to explain and make predictions about false memory. Part II reviews the basic science of false memory, including theoretical explanations of false memory and laboratory research with adults, adolescents and children. Part III covers the applied science of false memory, discussing false memory in criminal investigations, both with children and adults, as well as in psychotherapy, including recovered memories of previous lives. Part IV considers emerging areas for experimentation, including work to build on mathematical models, aging effects and cognitive neuroscience.

The book is intended not only for researchers in experimental and clinical psychology, but also for child protective services workers, clinical psychologists, defense attorneys, elementary and secondary teachers, general medical practitioners, journalists, judges, nurses, police investigators, prosecutors and psychiatrists.

– Susan S. Lang



Enlightened leadership for the greater good requires training in ‘The Leadership Wheel’ says author Clint Sidle

The forces that drive economic prosperity also can take a toll on the human spirit. What’s needed to balance excessive self-interest, greed and corruption is a principled, enlightened form of leadership within organizations that cares about the greater good, says Cornell author Clint Sidle.

“The challenge ... is to change the world from where we are, one step at a time,” writes Sidle in his new book, “The Leadership Wheel: Five Steps for Achieving Individual and Organizational Greatness” (Palgrave Macmillan, 2005), in which he shows how organizations can help people become principled leaders.

Sidle, B.S. ’74, MBA ’77, is director of the Roy H. Park Leadership Fellows Program at Cornell’s Johnson Graduate School of Management and a consultant on leadership development to other MBA programs and to major corporations. The Park program, which trains students to become principled leaders, holds that a commitment to the greater good – serving the mission of an organization and the development of its stakeholders – is one of the essential traits of good leadership.

To develop the five-step framework for leadership transformation, personal and organizational change described in his book, Sidle researched “archetypal truths” of ancient traditions as well as contemporary psychological and managerial thinking.

His “Leadership Wheel” system, which includes a framework of five intelligences – intellectual, emotional, intuitive, action-based and spiritual – along with a series of transformative exercises, has already been introduced at such companies as Generali, an Italian insurance conglomerate, Outward Bound International, Corning Inc., Kellogg’s and the American Red Cross among others.

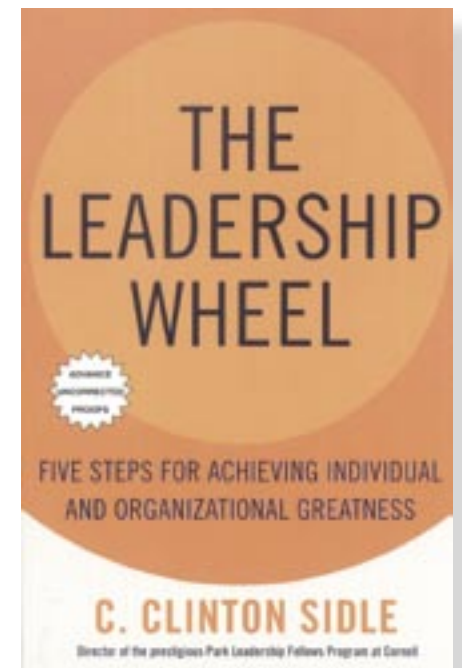
“‘The Leadership Wheel’ clearly demonstrates that financial success and socially responsible business are not mutually exclusive,” wrote managerial guru Kenneth Blanchard, A.B. ’61, Ph.D. ’67. “Best of all, chapter exercises guide the reader on how to make it happen at the individual, team

and organizational levels,” added Blanchard, who is co-author of best sellers “The One Minute Manager” and “The Servant Leader.”

“Sidle has managed to combine fresh and important insights with practical advice for developing resonant, emotionally intelligent leaders, great teams and vibrant, successful organizations,” commented Annie McKee, co-chair of the Teleos Leadership Institute.

“[The book] provides a vision of enlightened leadership by pulling together the three spokes of authentic leadership – the leader, the organization and society – into one integrated process,” noted Kevin Cashman, CEO of LeaderSource and author of “Leadership From the Inside Out.”

– Linda Myers



Introducing New Members of the Cornell Faculty

To help introduce new members of the faculty to the Cornell community, the Cornell Chronicle is publishing brief new-faculty profiles through December.

Rachel Bean

Assistant professor, astronomy

College: Arts and Sciences

Academic focus: Cosmology.

Previous position: Research associate, Department of Astrophysical Sciences, Princeton University, 2002-05.

Academic background: Ph.D., 2002, and master’s, 1999, both in physics, Imperial College, London; B.A., Cambridge University, England, 1995.

Last book read: “The Big Sleep,” by Raymond Chandler (again!).

In her own time: Hiking

Itai Cohen

Assistant professor, physics

College: Arts and Sciences

Academic focus: Physics of soft condensed matter.

Previous position: Postdoctoral associate, Harvard University, 2001-05.

Academic background: Ph.D., physics, University of Chicago, 2001; B.S., physics, University of California-Los



Bean



Cohen



Heffetz



Park

Angeles, 1995.

Last book read: “The Elegant Universe,” by Brian Greene – but plans to read “Harry Potter and the Half-Blood Prince” by J.K. Rowling next.

In his own time: “I love making sculptures. I love playing squash, tennis and handball. I love watching really bad science fiction movies. I also enjoy reading fiction (my favorite author is Vinita Prabhakar ... my wife).”

Ori Heffetz

Assistant professor, economics

College: Johnson Graduate School of Management

Academic focus: The social and cultural aspects of economic behavior. Heffetz is interested in the use of consump-

tion as a language to convey meaning and has explored phenomena such as the purchasing of goods to gain social status. His work examines how predictions about the behavior of economic agents change once the observation that economic decisions are always made in a cultural context is incorporated into models.

Previous positions: Lecturer, Woodrow Wilson School of Public and International Affairs, Princeton University, and teaching and research assistant, Princeton’s Department of Economics.

Academic background: Ph.D., economics, 2005, Princeton University; M.A., economics, 2002, Princeton; B.A., physics and philosophy, Tel Aviv University, 1999.

Last book read: “Love in the Time of Cholera,” by Gabriel Garcia Marquez.

In his own time: Travel (has been to 25 countries, five continents), exploring, listening or dancing to music, chilling and sipping coffee in a café with a good book, conversation or a Wi-Fi connection.

Travis Park

Assistant professor, education

College: Agriculture and Life Sciences

Academic focus: Teacher education and leadership, particularly school-based agricultural education teaching methods.

Previous positions: Agricultural education instructor, Tri-County High School, Wolcott, Ind., 1997-2002; lecturer, teaching assistant and lab instructor, instructional planning, oral communication, agricultural and vocational education, University of Florida-Gainesville, 2003-05.

Academic background: Ph.D., agricultural education, University of Florida-Gainesville, 2005; M.S., agricultural education, Purdue University, 2002; B.S., Purdue, 1996.

Last book read: “Blink,” by Malcolm Gladwell.

In his own time: Reading, day trips and Cubs baseball.

Freeville harvest brings food by the ton to needy dinner tables

BY J.R. CLAIRBORNE

This harvest season, families across the Southern Tier have received 81 tons of fresh fruits and vegetables thanks to faculty and staff at Cornell's Homer C. Thompson Farm in Freeville.

Bushels of fresh-picked tomatoes, sweet corn, potatoes, plums and melons were among the donations from the farm to food pantries associated with the Food Bank of the Southern Tier. The produce came from Cornell researchers who concluded their growing projects during harvest time this fall.

"Amazing," says Mark Rockwell, warehouse logistics coordinator for the food bank. "The effort that Cornell put into it, the effort of the guys in the field ... It's the best quality produce you can find. To find something like that is great all the way around." This year's harvest also included cabbage, cantaloupe, dry beans, green beans, onions, pumpkins, red beets, and squash.

From August through early November, researchers and farm staff donated nearly 163,000 pounds – or 81 tons – from the farm. The produce was grown in support of research projects in the College of Agriculture and Life Sciences, whose land-grant mission includes advancing a productive and sustainable agriculture and supporting a safe, secure food supply. The crops were produced using conventional and organic growing methods.

This season marked the second year the Food Bank of the Southern Tier received the produce. But, says Steven P. McKay, manager of the Freeville farm, it was the first year that practically all researchers – 13 faculty members from six departments – contributed to the harvest and made use of new 20-bushel bins. These facilitated the retirement of the more tedious process involving smaller, wooden bins and plastic wrap, McKay says. Last year, researchers donated more than 90,000 pounds to the food bank, which later awarded the De-



PROVIDED

Eleven of 17 bins of pumpkins await transport to the truck that will take them to the Food Bank of the Southern Tier for distribution to food pantries across a six-county area.



PROVIDED

Steve McKay, manager at Cornell's Homer C. Thompson Research Farm in Freeville, takes up a bin of potatoes for transport to the Food Bank of the Southern Tier. The potatoes are among 81 tons of produce donated by the Cornell farm.

partment of Horticulture a "Donor of the Year" award.

Robin Bellinder, professor of horticulture, started the donation effort in the late 1990s, when the quantity of produce generated by her research projects on large plots of the farm persuaded her to do more than "just throw this stuff away."

At first, donations went to a food bank in Syracuse, and the farm was opened to people to collect the crops themselves. A desire to protect ongoing projects and better benefit local communities led to the connection with the Food Bank of the Southern Tier. The organization serves six area counties including Tompkins. The food bank also distributes donated seed and cut potatoes and maintains connections with children's garden projects in its constituent counties. Of the 27 agencies connected to Tompkins County's food distribution network, 17 received a collective 18,148 pounds of the produce donated by the Cornell farm this year, says Crissy White, warehouse administrative operations coordinator of the food bank.

"There have been many tragedies this year, from earthquakes to tsunamis to hurricanes, to which many have responded with generous donations. However, this has come at the expense of contributions to local charities who address needs that usually do not involve life and death, but are important nonetheless," says Marvin Pritts, chairman of Cornell's horticulture department. "So, our food

contributions help meet the local need."

Yet despite the strain on local food pantries and New York state's eight major food banks that supply them, in Tompkins County, from January to September this year, the food bank helped service approximately 22,565 households, or about 1,900 monthly. That was up from 20,000 households, or roughly 1,600 monthly, in the same period a year ago.

"It's been an exciting and good way to connect with everyone on the farm," says Betsy Ingall, research technician for the horticulture department, speaking for faculty and staff. "We feel like we're really doing something. Rather than throwing [the produce] away or composting it, we're giving it to folks who really need it."

The top four donated crops

- potatoes: 48 bins
 - sweet corn: 23 bins
 - cabbage: 36 bins
 - pumpkins: 17 bins
- (1 bin = 20 bushels; 1 bushel sweet corn = 60 pounds)**

- Source: Steven P. McKay, manager at the Homer C. Thompson Research Farm

Cornell United Way campaign surges toward its \$627,000 goal for 2005

BY FRANKLIN CRAWFORD

With pledge card glitches and minor snafus fixed, the Cornell United Way Campaign surged into high gear with pledges-to-date totaling \$413,855 – an almost sixfold jump from just a month ago.

The campaign is now at 66 percent of its \$627,000 goal. United Way of Tompkins County (UWTC) is similarly on a roll with pledges-to-date totaling \$1,156,268 – 62.5 percent of its \$1.8 million goal. Contributions to Cornell's campus campaign annually accounts for one-third of the goal set by UWTC.

"We are very encouraged by our progress so far, but we do have a ways to go to get to our goal," said Charles Walcott, dean of the university faculty and chair of the Cornell campaign. "I am especially pleased that even with Cornell's generous response to the several disasters like Katrina and the [Pakistan] earthquake, United Way contributions remain strong. We are all very fortunate to

live in such a generous and caring community."

Indeed, the university's leadership role in the county is due in part to the generosity of Cornell staff, faculty and students. But it's also the result of a lot of hard work by key Cornell players who volunteer far more than a pledge to the annual campaign – both on and off campus. Their efforts start in the spring and intensify as the UWTC campaign takes off in the fall.

The Cornell campaign is assisted by a cabinet of 16 Cornell staff members, including Walcott. They are a devoted group of volunteers who represent a cross-section of Cornell employees. Cabinet members include three former chairs of the Cornell United Way Campaign who serve as advisers: Susan Murphy, vice president for student and academic services; LeNorman Strong, assistant vice president for student and academic services; and Mary



Opperman, vice president for human resources.

Other Cornell cabinet members include: Sarah Thomas, the Carl A. Kroch University librarian; Diana

LaLonde, executive staff assistant in the Office of the Dean of Faculty and assistant to the campaign chair; Elizabeth Rawlings, wife of President Hunter Rawlings; Karen Brown, office manager of the Campus Life Management Office; Steven Myer, financial analyst, financial affairs; Dennis Stein, Paw Print editor and employee outreach manager, Human Resources; Gary Stewart, assistant director, Community Relations; Cathy Salino, manager of accounting operations, financial affairs; Donna Jenney and Cathy Jenner, finance specialists, Business Service Center; Robin Yager, director of the University Administrative Service Center; and Mike Powers, director of operations, University Communications.

Cornellians also serve on the UWTC executive committee. They include: Murphy; John Alexander, president of CBORD Group and a Cornell trustee; and Eugenia Barnaba, senior extension associate in crop and soil sciences. Other Cornell-affiliated members of the county's board include: Strong; Rev. Kenneth Clarke, director, Cornell United Religious Work; and Donna Green, administrative assistant in the College of Veterinary Medicine.

United Way raises money to support more than 100 local programs through 30 member and affiliated agencies and 11 community councils designed to meet critical needs in the local community.

United Way pledges can be paid through payroll deduction or with a check or credit card. For more information, visit the UWTC Web site at <<http://www.uwtc.org>> or Cornell's United Way Web site, where you also can donate online, at <<http://www.unitedway.sas.cornell.edu/>>.

Land-grant continued from page 3

for handling it. For 10 years, Bennett has given Connecting with Kids workshops on topics ranging from tips for handling children with attention-deficit/hyperactivity disorder to how to foster better communication between adults and children. For bullies, Bennett said, a comprehensive strategy is needed where everyone – students, teachers, administrators and even the community – gets involved. Bullying is based on a child having power and feeling rewarded when he or she exerts that power and

others give in, she noted.

"The bully has an effective weapon that is gratifying to him or her, and getting him to stop using that weapon is really the biggest challenge," said Bennett. But programs that include consequences for bullying and learning prosocial skills can be very successful if everyone works together.

The Connecting with Kids team also includes Jennifer Collins of CCE-Herkimer County and Chris Weber-

Mangini of CCE-Oneida County. The workshops are funded by a grant from the Slocum-Dickson Foundation.

This is just one of many such programs run through CCE to carry out the university's land-grant mission to transfer knowledge from the university to the community and to open a dialogue between Cornell and people outside the campus. Although four Cornell colleges operate as contract colleges through the state, all of Cornell is New York's land-grant university.

Student essay winners

David Vautin – ‘A complex web of change in government systems: From tribal to colonial’

The Chronicle is reprinting winning entries from Cornell's New Student Reading Project student essay contest. Featured this week: David Vautin '09, a civil engineering major in the College of Engineering.

In essence, the European “reforms” to the African culture reflected a complex attempt to subvert the Ibo people’s way of life in Chinua Achebe’s “Things Fall Apart,” replacing the established society with a new European-dominated governing system under the philosophy of Kipling’s analogy of the “White Man’s Burden.” The major changes undertaken by the European imperialist government affected the

lives of thousands in the African territories impacted by this action, including the south Nigerian Ibo tribe. Resulting in complicated changes that had both benefits and shortcomings for the Ibo people, the creation of a new class system, a different version of judicial administration, and a differing connection to the spiritual life of its citizens marked this transition from tribal governance to European colonialism.

The European viewpoint on the governmental and legal system was formed on the basis of a class system superimposed over the traditional Ibo approach of the seniority system within the tribe. Noting this new system had caused him to “mourn for

the warlike men of Umuofia, who had so unaccountably become soft like women” (p. 183), Okonkwo’s overpowering emotions indicate this cultural breakdown in governance. The failure to integrate the two systems to form a new government, or at least to respect the other culture’s unique views, caused the inherent destruction of the distinct native culture by conquering Europeans. Exemplifying this new system of imperialistic justice, the conversation between Obierika and Okonkwo over the brutal European process of “justice” through torture and imprisonment forces the reader to consider “the knife [used to break the bonds] that held [the Ibo people] together” (176). The whole concept of class-based government appears sadly ironic as “the low-born and the outcast” (174) join the colonizers’ Christian religion only to be ensnared in a new class position from the foreigners’ viewpoint – a position of pacified savages. By destroying the positions of the elders through the leadership of the tribe, especially in the closing scenes of the text, the Europeans’ actions managed to eliminate the African government already in place; while through their perspectives they were “[pacifying] the primitive tribes of the Lower Niger” (209), the District Commissioner’s actions covertly managed to destroy the citizens’ connection to their native environment and cultural ancestry.

On the issue of judicial administration, the new European system emphasizes physical punishment for illegal actions while the African cultural justice focuses on preservation of one’s self-pride. The Ibo culture, as shown by Okonkwo’s self-imposed exile and climatic suicide, focused on protection of one’s honor; meanwhile, the new colonial government focused on the traditional Western forms of punishment through monetary and physical penalties. The evolution of the tribal leaders’ behavior from their stubborn defiance at their initial imprisonment to their grudgingly forced statement of “yes, sir” (194) during their brief prison terms shows how the cultures differ. Respect of own’s personal chi and self-image drove many of Okonkwo’s ac-

tions, especially in light of his father’s failed masculinity. Additionally, the reactions of tribal individuals and white colonizers to the suicide of Okonkwo, especially Obierika’s denouncement of the colonial officials’ “[driving Okonkwo] to kill himself” (208). Obviously, the internal psyches of the two groups differ, as the Ibo tribal members flee to preserve their dignity while the Europeans expect individuals to face the punishments of an official judicial system.

While spirituality and religion both have roles in the respective governmental systems, the roles of both the native African polytheistic religion and the Christian religion of the European imperialists differ in several critical ways. Okonkwo’s lament of the tribe’s failure to block the spread of the religion highlighted the issue of religion as a facet of governmental structure – “he has won our brothers and our clan can no longer act as one” (176). The symbolic knife referred to in the text as the divisive European control over its religious converts caused an internal conflict, weakening the tribe to outside influences. The schism between Nwoye and Okonkwo in the text highlights the clear differences between the two factions. However, the essential similarity is the direct connection between the religions and their respective cultures and governments. Both religious leaders – Chielo, the priestess of Agbala, and Mr. Kiaga of the Christian faith – proclaim strongly that the opposing side is completely incorrect or, in Chielo’s words, “the excrement of the clan” (143). As shown by the climatic ending of the text, the religious affiliation of the clan members demonstrates these citizens’ allegiance to the governmental systems.

In conclusion, the issue of perspectivism for both the native Ibo people and the European imperialists plays a role in understanding the changing legal and governmental system. As shown by Achebe’s profound text in “Things Fall Apart,” the complicated effects of this collision of cultures profoundly changes the ethnic nature of the African government, replacing it with a European-style colonial regime.



KEVIN STEARNS/UNIVERSITY PHOTOGRAPHY

David Vautin, one of the winners of the New Student Reading Project essay contest, relaxes on the engineering quad.

CU Muslims and community mark Ramadan’s end with Eid banquet

BY LINDA MYERS

About 300 people, Muslim and non-Muslim, students, faculty, staff and their families and community guests, gathered in Trillium dining hall Nov. 6 to take part in a shared meal.

The banquet celebrated Eid al-Fitr, the three-day Muslim holiday that marks the end of Ramadan, the holy month in the Muslim calendar characterized by self-reflection and fasting from before first light to sunset, in keeping with a commandment and to get closer to God.

The event also revealed how diverse Cornell’s Islamic community is – with campus Muslims hailing from more than 50 countries in addition to various regions of the United States – highlighted by the native costumes some wore, from Pakistan, West Africa and Turkey.

“Americans tend to have a uniform image of Muslims,” noted Shawkat Toorawa, assistant professor of Arabic literature and Islamic studies in the Department of Near Eastern Studies, who advises the Muslim Educational and Cultural Association (MECA), the student group sponsoring the event. “We wanted to show that Muslims are diverse – we don’t just come from the Middle East,” said Toorawa, who is from Mauritius, an island in the Indian Ocean east of Madagascar. “We are people like any other people – we celebrate holidays with our children, we eat food that people don’t traditionally associate with being Muslim, and we sing songs in languages other than Arabic.”

Indeed, one of the evening’s highlights was a performance by the Madrasa al-Rumman Islamic Children’s Chorus of Ithaca that included a traditional Eid song in Malay

and “This World Is Your World, This World Is My World,” an English-language adaptation of the Woody Guthrie classic “This Land Is Your Land.” Among the performers were Toorawa’s two daughters, Maryam, 11, and Asiya, 8.

The menu featured Islamic dishes from around the world, including teriyaki beef from Japan, chapati bread from Trinidad, ratatouille from France and brownies from the United States, in addition to such Middle Eastern fare as tabbouleh and baklava. All the food was certified *halal*,

‘Eid al-Fitr reminds us of our pure nature and to turn to God with that nature.’

- Kasim Kopuz

or permissible under Islamic law.

Guests also were given fortune cookies with messages in the many languages that Islam embraces. Their task: To guess the message (no surprise – “Happy Eid”).

The keynote speaker, Kasim Kopuz, the prayer leader at the Johnson City, N.Y., Mosque and imam of the Islamic Organization of the Southern Tier, spoke of the human desire to acquire, dominate and control and warned that such behavior alienates people from their true selves as well as their relationship with God. He condemned the violence that can result from extreme views and stressed that God’s way is one of peace. “Eid al-Fitr reminds us of our pure nature and to turn to God with that nature,” he said, emphasizing the importance of doing so “in the presence of other human beings,” such as at the Eid banquet.

The evening ended with a mock television quiz show, “Do you know Muslim people?” aimed at dispelling ste-

reotypes, that had the audience laughing nonstop. Some of the panelists – who played such stereotypical roles as brainy Asian-American, dumb jock and vain valley girl – confused Ramadan with the Ramada Inn, a prophet with “profits from selling Persian rugs,” and the Arabic word *haram*, which means “forbidden” and generally refers to food and drink, with a sultan’s harem. “I’ve got it! It’s a whole bunch of ladies and just one guy,” shouted one eager panelist.

This is the first year of a large Eid el-Fitr celebration involving the campus community, noted Toorawa, who stressed that such public events are a way to educate non-Muslims about Muslim customs. Past events have included an Iftaar banquet, organized by the Cornell Society for Islamic Spirituality (CSIS), another student group that co-sponsored the Eid banquet. Toorawa hopes that other Muslim festivals, such as Muhammad’s birthday, will be similarly shared with others.

Sami El-Rakshy, a Ph.D. candidate in nutritional genomics from Alexandria, Egypt, enjoyed the camaraderie and excitement of the event and said it reminded him of large Eid family celebrations at home, when relatives would visit and his mother would cook favorite dishes.

And Omer Bajwa, a Ph.D. student in Near Eastern Studies, who delivered an after-dinner talk and slide show on some of the world’s most significant mosques, said the event was “*mumtaz*” – excellent.

The event had 21 co-sponsors, including various Cornell departments, centers, offices, programs and organizations, the Johnson Museum, the Bartels family and several local businesses.

FOCUS on Cornell University Library

Libraries increasing access to scholarly information

BY ROSS ATKINSON

Academic research libraries exist to ensure that scholarly information needed for learning and research is readily accessible to both present and future generations of scholars and students. For the most part, what libraries make available are the end products of a formal publishing process – books and journal articles (both increasingly in electronic form), as well as other resources such as visual media and databases.

In recent years, however, increased prices and extreme pricing policies adopted by some publishers have forced libraries to trim their budgets. Now that it has become too costly to provide users with access to some key scholarly information, many research libraries have begun working with faculty and with not-for-profit publishers, especially society publishers and university presses, on alternative methods to publish scholarly information.

Cornell University Library (CUL) is among several large academic research libraries that now operate their own publishing offices to produce high-quality scholarly publications, either by working with local researchers or by partnering with other publishers. For example, over the past five years CUL's Project Euclid has supported a range of publishers in helping them make their mathematics and statistics journals accessible online at a reasonable price <<http://projecteuclid.org>>.

While the excessively high prices now being charged by some (primarily commercial) publishers is a powerful motivation for seeking alternatives to traditional scholarly publishing, research libraries are equally concerned about finding ways of increasing access to these publications and ensuring that they will remain accessible for the long term.

In May 2005 the Cornell Faculty Senate passed a resolution encouraging faculty to become familiar with the pricing policies of peer-reviewed journals in their specialty and to stop submitting papers to, or refereeing for, journals sold by publishers who charge exorbitant subscription fees (see <<http://www.library.cornell.edu/scholarlycomm/resolution>>).



PROVIDED
The Greek mathematician Pythagoras (569-475 B.C.), considered by most historians to be the first pure mathematician.



html>). The resolution also endorsed alternative publishing methods, such as open-access journals, retaining some copyright, and placing copies of publications in open-access repositories.

During this academic year, library staff members are visiting academic departments to discuss these issues and the services CUL offers to help faculty take advantage of new and alternative publishing methods. Perhaps the most basic action researchers can take is to retain some publishing rights for their own scholarly work. This can be done by transferring only "nonexclusive" rights to publishers in the copyright contract. For example, authors can negotiate to retain the rights to use the publication for teaching purposes,

publish it elsewhere, make a copy freely available for e-reserves or for course packs, as well as the right to add the publication to an open-access repository so that it will be freely accessible to users on the Internet. (A sample addendum to copyright agreements for journal articles is available at <<http://www.arl.org/sparc/author/addendum.html>>.)

Some publishers will allow authors to place a preliminary draft of an article (which may be different from the article in its final form) in an open-access repository. Others will permit the final copy to be made available free online at a specified time following initial publication.

Placing a publication in an online repository not only ensures that the information is more accessible to other scholars, but also that it will remain available for the long term – especially if the repository is managed by an academic library. If the public

copy is available only on a publisher's server, technical or economic problems can jeopardize the continued availability of the publication.

CUL currently manages two open-access repositories: DSpace, an institutional repository for use by all Cornell faculty, students and staff <<http://dspace.library.cornell.edu>>, and the arXiv, a disciplinary repository for publications in physics, computer science, mathematics and computational biology <<http://arxiv.org>>. Founded in 1991 by Cornell physics professor Paul Ginsparg when he was working at Los Alamos National Laboratory, arXiv is the world's most successful disciplinary repository.

CUL aims to remain a key player in the scholarly information exchange process and is committed to working with scholars, publishers and other libraries to review and, if necessary, revise the process by which the fruits of teaching and research are made available.

Ross Atkinson is Cornell's associate university librarian for collections.



UNIVERSITY PHOTOGRAPHY

Cornell University Librarian Sarah Thomas talks with Mark Dimunation, Cornell's former curator of rare books, at the Janus Conference on campus in October. Dimunation, who is now chief of the Rare Book and Special Collections Division at the Library of Congress, gave one of the keynote addresses at the conference.

Conference ponders building library collections

More than 80 chief collection development officers, representing the nation's largest research libraries, met at Cornell in October for the "Janus Conference on Research Library Collections: Managing the Shifting Ground between Writers and Readers" <<http://www.library.cornell.edu/janusconference>>.

The purpose of the conference, supported by the Gladys Kriebel Delmas Foundation, was to review and re-envision how research library collections are built and maintained in today's rapidly changing information environment.

Twenty-five years ago, Cornell University Library (CUL) received a grant from the Andrew W. Mellon Foundation supporting a thorough assessment of CUL's collection development methods and values. The reports of that project had a

broad influence on how CUL and other research libraries built their collections in the 1980s and 1990s. Now CUL has hosted a conference on collection development looking both backward at

how research library collection development has evolved, and forward at how research collections should be developed in the new age of information.

Four key thinkers in collection development gave presentations at the conference (all were videotaped and will be available on CUL's Open Access Repository <<http://dspace.library.cornell.edu>>). Hendrik Edelman of Long Island University spoke about the evolution of collection development over the past 25 years. Mark Dimunation from the U.S. Library of Congress discussed the continuing importance of the print artifact in the new environment. Mark Sandler, University of Michigan, talked about library collections in the age of Google. And Jean-Claude Guedon, University of Montreal, considered the links between library collection building and alternative methods of scholarly publication.

Conference participants identified and discussed six key collection development

challenges facing academic research libraries:

- Retrospective conversion – the need to convert print holdings to digital form, recognizing that selected print copies must be retained.
- "Prospective" conversion – the need to ensure that more scholarly publications are published in digital form.
- Core definition – the need for libraries to define a core of information on each subject and to ensure that all research libraries have access to the same core.
- Publisher relations – the need for research libraries as a group to negotiate more collectively with large publishers.
- Archiving – the

need for libraries to develop coordinated and scalable methods to maintain traditional and digital resources for the long term.

- Alternative channels for scholarly communication – the need to work with scholars and other key players on a new publishing network that scholars can use as a supplement or alternative to standard scholarly publishing.

Six working groups were formed at the conclusion of the conference, and the results of their discussion and potential next steps will be considered at a collection development officers meeting in January at the midwinter conference of the American Library Association.

The purpose of the conference ... was to review and re-envision how research library collections are built and maintained in today's rapidly changing information environment.

FOCUS on Cornell University Library is compiled by Elizabeth Fontana, communications manager for Cornell Library. Contact her at <ef3@cornell.edu>.

Comfort foods help women when they're blue, but increase male highs, food study finds

BY LINDA MYERS

Picture your grandmother's homemade applesauce – or a steaming cup of cocoa with marshmallows – or a double-dip super fudge chunk ice cream cone with rainbow sprinkles. Comfort foods all, but equally so to men and women?

A new study from a Cornell professor and two colleagues shows that while women comfort themselves with such foods when they are feeling down in the dumps, men indulge as an enhancement when they are feeling their best. The findings may lead to a better understanding about food choices that lead to weight gain or, conversely, promote a healthy lifestyle.

Said study co-author, Jordan L. LeBel, associate professor at Cornell's School of Hotel Administration: "In the past comfort food was considered primarily as a strategy to alleviate stress, sadness and other negative emotions. Ensuring emotional well-being is still the goal, but pleasure and positive emotions can also determine food choice, especially in men."

A study by LeBel and his co-authors, Laurette Dubé, professor of consumer psychology, and Ji Lu, a Ph.D. candidate, both of McGill University, "Affect Asymmetry and Comfort Food Consumption," has just appeared in the journal *Physiology & Behavior* (Vol. 86, No. 4).

While the study confirms that comfort foods can be effective in alleviating negative emotions, the authors show that they can also enhance positive ones – but not for everyone. Men and older adults were more likely to report higher positive emotions after eating their favorite comfort

foods than women and younger adults. The study also showed that for women particularly, comfort foods can produce feelings of guilt.

Another finding: Foods high in sugar and fat content are more efficient in alleviating negative feelings, whereas foods with fewer calories are more efficient in increasing positive emotions. Men's comfort foods include protein-dense foods (e.g., steak), whereas women and younger participants prefer high-calorie sweet snack foods like chocolate and ice cream.

Finally, older people and people whose cultural background is French or Francophone seek out comfort food when they are feeling positive, whereas younger people and people with British Anglophone backgrounds get the munchies for food that comforts when they are feeling negative.

LeBel, who is French Canadian and an expert on one essential comfort food – chocolate – recommends his recipe for half-baked (molten) chocolate cake as a cure-all for negative emotions and an enhancer of positive ones. See LeBel's recipe at <http://news.cornell.edu/stories/Nov05/LeBel.comfort.food.lm.html>.

The study's findings were drawn from the results of a Web-based survey completed by 277 participants.



ROBERT BARKER/UNIVERSITY PHOTOGRAPHY

Hotel School Assistant Professor Jordan LeBel samples his half-baked chocolate cake with whipped cream. A study he co-authored showed that women seek comfort food as an antidote to negative feelings, while men consume it to enhance positive emotions.

In Africa, children as young as 9 are heading households

BY SUSAN S. LANG

So many millions of African children have been orphaned by HIV/AIDS and war that many have been forced to become heads of households at very tender ages.

With few places to turn for help, they are more likely to seek out other children and young people than anyone else, according to a new Cornell study of the social networks of child-headed households in Namibia, in southwest Africa.



Ruiz-Casares

"As poverty, armed conflict and AIDS become more common, the number of orphans in Africa continues to grow. It is estimated that more than 18 percent of the children in Namibia, for example, will be orphans by 2010, and the numbers are even greater in such countries as Zambia, Zimbabwe and South Africa," said Cornell doctoral candidate Mónica Ruiz-Casares. She has been studying how families and communities can

better support child-headed households in Namibia, one of the 10 most AIDS-affected countries in sub-Saharan Africa.

"We find that fewer orphans are being absorbed into their extended families, which are under increasing stress. As a result, the number of child-headed households in many countries continues to increase," said Ruiz-Casares. "At the same time, the number of relatives available to any given individual is decreasing rapidly." In many places, AIDS and armed conflict are also overburdening social systems, hindering health and education development and undermining social support systems.

Ruiz-Casares involved more than 200 children in her study and conducted in-depth interviews with 33 children who headed households in three regions of Namibia. She mapped the social networks of the children, assessed their needs and strengths and what factors affected their options for coping in a country heavily affected by AIDS.

She presented her findings during October at the 2005 American Evaluation Association in Toronto and at the Third African Conference for Research on the Social As-



MÓNICA RUIZ-CASARES

As more people die of HIV/AIDS in sub-Saharan Africa, more and more children, such as these, find themselves heads of their households. Some are as young as 9 years old.

'... more than 18 percent of the children in Namibia, for example, will be orphans by 2010.'

- Cornell doctoral candidate Mónica Ruiz-Casares

pects of HIV/AIDS in Dakar, Senegal. She also presented a keynote address to policy-makers, service providers and scholars at the Third National Orphan and Vulnerable Children Conference in Windhoek, Namibia, earlier this year.

Ruiz-Casares found that the average primary network size of the children heading households in Namibia, i.e. the people children identified as "most" important in their lives, was four people, and that 60 percent of the time, children turned to other youths for emotional and material help and advice. In spite of the general satisfaction of children with the kinds of help they receive, 42 percent of the

child-heads interviewed had suicidal thoughts and very few had ever shared those thoughts before, reported Ruiz-Casares, who has a law degree and is expecting her Ph.D. in policy analysis and management this December.

"The findings have important implications for programming and serve as a reminder that children and youth are key resources and should be more involved in prevention and intervention efforts, since they often are the ones their friends will go to for help when in need," she said, noting that more effort should be made to train young Africans to serve as social supports for other young people.

Among the study's other findings:

- Children heading households are in some cases as young as 9 years old. The average age of the children heading households interviewed in Namibia was 17.
- About 55 percent of the child-heads are girls.
- Half of the child-heads are students.
- One in four children said they were living without adults because they had no one to move in with – relatives either had too many dependants or lived too far away. The second most common reason was that children did not want to be separated from siblings or did not want to abandon their homes. The third most common reason was that relatives did not want to take them in.

AIDS is now the leading cause of death in Namibia; in 2001, more than 12 percent of children under age 15 were orphaned by one parent and 1.3 percent by both parents, but in Namibia's Caprivi region, one of the areas in the study, up to 3 percent of the children have lost both parents. In 1990, there were fewer than 1 million children orphaned by AIDS in sub-Saharan Africa; today there are more than 12 million. By the end of 2010, UNICEF officials expect there will be 18 million orphans in Africa due to AIDS and a total of some 50 million orphans.

The study was funded, in part, by the National Science Foundation, American Association of University Women, Woodrow Wilson Foundation, Human Ecology Graduate Student Award for International Scholarly Activities and the Mario Einaudi Center for International Studies at Cornell. It was conducted in affiliation with the Multidisciplinary Research and Consultancy Centre at the University of Namibia.

Engineers digitally preserve massive Lab of Ornithology collection by looking to the future

BY KRISHNA RAMANUJAN

The video and sound engineers at the Cornell Lab of Ornithology's Macaulay Library – billed as the world's largest archive of animal sounds and associated video – are in the process of digitizing their entire collection. Within six months, they hope to post much of their world-renowned collection online for researchers, educators and others to use.

The task is staggering. The library contains 170,000 sound recordings of 67 percent of the world's birds and it has rapidly growing holdings of insects, fish, frogs and mammals, as well as some 28,000 video clips of 3,000 species. And the recording types and formats vary widely – some audio clips date back to 1929.

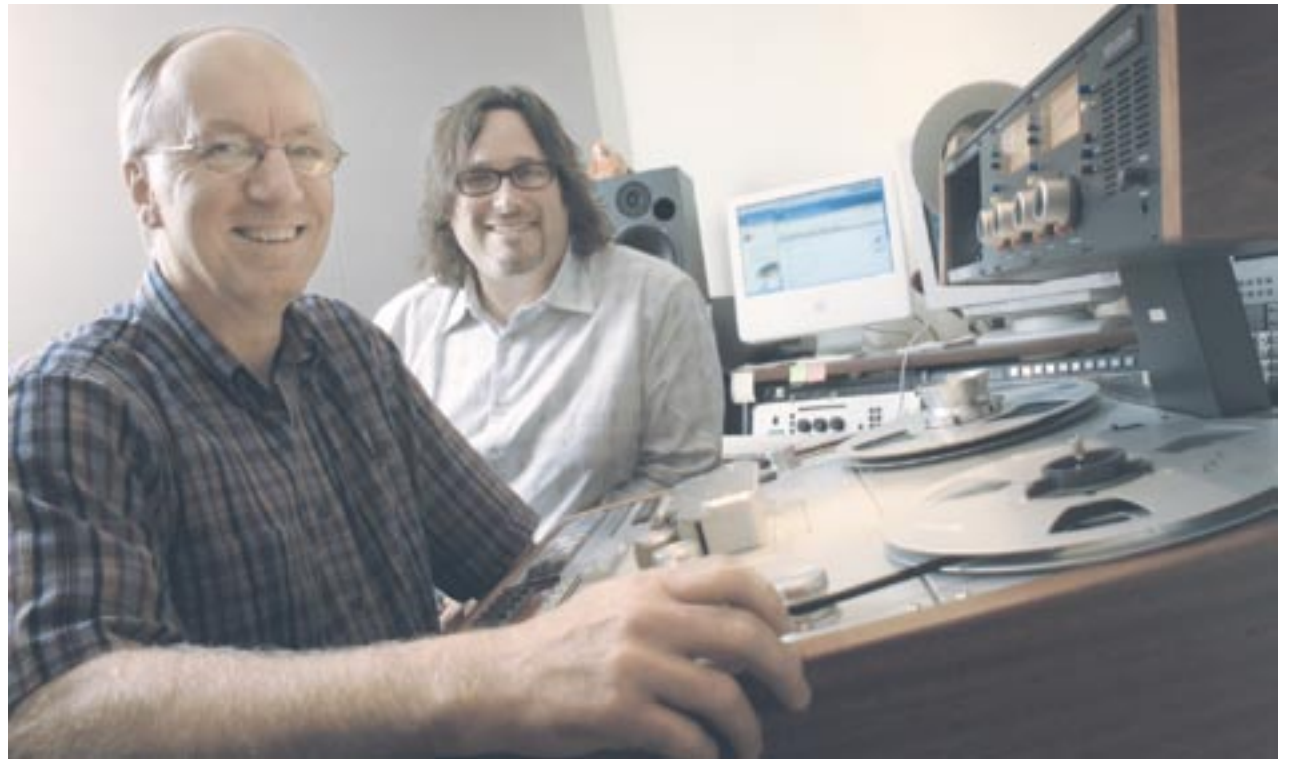
The engineers have had to invent standards for digital preservation where none existed, and they must re-tune their strategies as technology evolves every few years. For example, with the help of Sony and Canon, the library now has \$150,000 high-definition video cameras to keep pace with industry standards and build a collection that stays relevant for years to come.

Well aware that technology morphs constantly, lab engineers strive to create a digital record now that contains enough information to make it data-worthy for researchers and transferable to future systems that have yet to be invented.

"If we scrimp now, it won't be me and the people now who see it, it'll be the people 100 years from now who are trying to move everything to the next format, who start to get these pixilation errors or digital artifacts, or whatever, and they will curse my name, and that I don't want," said Marc Dantzker, curator for the Visual Media Collections at the Macaulay Library.

For video, the engineers need very high data rates – speeds that data can transfer from one device to another – and file formats that are not proprietary and whose codes are openly accessible and published. While the audio engineers have for the most part created their own standards, digitizing video is still an emerging technology, and Dantzker and his colleagues feel at times like they are groping in the dark.

To have high-resolution video recordings that match the quality of the original, the technology needs a few years to



JASON KOSKI/UNIVERSITY PHOTOGRAPHY

Bob Grotke, left, and video engineer Bill Hatch use equipment that integrates older, reel-to-reel tape with new digital technology during the archiving process at the Macaulay Library of Natural Sound at Cornell's Lab of Ornithology.

catch up. Hard drives that store information must become cheaper, so that data can be stored uncompressed – which takes up more disk space but ensures that information is not lost during a compression process. Until then, the library engineers have created an interim system that allows room to grow into new technologies.

"What we have preserved on disk is a very high-quality copy, but it is compressed, so inherently it is not as good as a high-resolution uncompressed copy," said Dantzker. Each recording has been time coded so the timing matches exactly with the original. When new technology arrives, the engineers will be able to maintain a clip's place in the archive by re-recording the master in that time slot, using new tools to store perfect (lossless) digital copies of video that retain all the information of the original.

Ever since the Macaulay Library started digitizing its massive audio collection in 1999, it has been inventing its own systems. As a result, the library has been at the forefront of developing current accepted standards.

"It's the state-of-the-art from archival through delivery," said Bob Grotke, the library's supervising engineer who masterminded the system with other library staff. For example, early on, Grotke and colleagues made a decision to transfer existing recordings to DVD-ROM with higher storage capacity when every one else was using CD-ROM, and to record at 96 kiloHertz and 24 bits – rates that were much higher than the standards of the time.

Grotke explained that in an analog world sounds are continuous, while digital recordings take a 'snapshot' or sample of sound at a certain rate; 96 kiloHertz means a sample of the sound is taken 96,000 times per second; and 24 bits means there is higher resolution than, say, on a compact disc which only uses 16 bits, because more bits add detail and accuracy to a sound sample – similar to how a digital

photograph's resolution would be increased if it contained more dots per inch because the extra dots add detailed information to a picture. For some sounds, like the calls of bats or the echo-location calls of marine mammals, higher sampling rates are necessary to preserve all the information of the original recording, and one that will stand the test of time when new technologies emerge.

The DVDs are stored in 12 "jukeboxes," each about half the size of a refrigerator. Each holds 480 DVD disks, all connected to the local area network, making individual high-resolution recordings available at workstations at the lab. Three and a half are in use, representing 4 terabytes (a terabyte is a trillion bytes – enough space to store 300 feature length movies) of digitized audio, or about a third of the audio collection that currently has been digitized. The library's digital video collection already takes up roughly 2.5 terabytes of disk space. And that's only about 60 percent of the current video holdings. Once an uncompressed solution is found, the current video holdings will require roughly 100 terabytes to store perfect copies.

However, with the cost of hard disks falling rapidly, and maintenance costs rising, the library is abandoning the jukebox system and has begun storing the entire collection directly on hard disks.

"The shift from analog to digital archival and distribution has revolutionized the Macaulay Library's operations at all levels: we are faster, vaster, more accessible, and better indexed in the digital world than we could ever have become in the analog one," said Jack Bradbury, the Robert G. Engel Professor of Ornithology and Director of the Macaulay Library. "The constant change in technology keeps us on our toes, but we have become quite talented at inventing what we cannot find off the shelf, or forging partnerships where teamwork is the better solution."



JASON KOSKI/UNIVERSITY PHOTOGRAPHY

Marc Dantzker poses with shelves of video and film recordings that await the digital archiving process.



MATTHEW FONDEUR/UNIVERSITY PHOTOGRAPHY

Two arrangements of red and white roses were placed in Sage Chapel Nov. 6 to commemorate the birthday of Andrew Dickson White, Cornell's first president. The roses are placed in Sage Chapel every year on the Sunday closest to White's birthday (Nov. 7), funded by a Division of Rare and Manuscript Collections endowment created through a bequest by White's daughter, Karin, in 1972.

Traffic drives discussion at sustainability forum

BY LAUREN GOLD

It was a conversation. And that, they agreed, was a start.

Traffic and parking issues were at the top of the agenda for the first open forum on sustainability at Cornell on Nov. 8. The discussion, sponsored by the University Assembly, was the first of six planned summits to focus on creating a culture of sustainability throughout campus.

About 30 students, faculty and staff were in Willard Straight Hall's Memorial Room for the discussion, which featured Cornell sustainability coordinator Dean Koyanagi,

members of the University Assembly and representatives from Cornell's Transportation and Mail Services.

For Koyanagi, it was an opportunity to hear the community's concerns (which touched on parking issues, building more energy efficient buildings and buying from local farmers) – and to brainstorm solutions.

He listened to criticism of the administration and said he understood the frustration of students and staff who feel unheard. But the administration, he argued, is open to creative solutions – as long as they are financially sensible. "And they are making

progress," he said. "It's this very slow, mechanical process, but it is happening."

As for making it happen faster, he encouraged participants to be proactive about generating ideas, doing thorough research and presenting the administration with options that are both environmentally sound and cost effective.

"Bring them in in a way that they're not scared off by it," he said. "It has to come from a lot of different people."

Greg Kilmer, assistant director of Mail and Special Transportation Services, added that he has seen Cornell's parking demand management program cited by other uni-

versities as a positive model. "Transportation has been very forward-thinking," he said. True, there is plenty of work still to be done – but dialogue, he said, is key.

"So much of this process is communication," said Kilmer. "I think [the forum] is a big step. You have to start somewhere. It's a great beginning."

Julie Singer, a junior in the College of Engineering and a member of the University Assembly's committee on transportation, said the scope of the conversation was a little daunting. But she was optimistic.

"We've got a lot of work to do," she said. "But this was good."

Energy *continued from page 1*

ings. Campus growth and a need for heat led to three district heating plants, which operated until they were replaced with the current Central Heating Plant (CHP) in 1922.

The CHP began with four boilers, designed to produce steam from Pennsylvania anthracite coal. The facility has required expansions over the years, and the boilers, fuels, and power generation have changed – but the CHP remains at the core of campus heat and electricity production. The plant relies on coal as a primary fuel, supplemented with either natural gas or oil when needed. The operations and maintenance staff at the plant assure a reliable steam supply to campus via computer control systems that automatically react to a need for heat. Filters and strict fuel specifications minimize emissions from the two 225-foot brick chimneys.

Cornell buys about 85 percent of its electricity from New York State Electric and Gas (NYSEG). Of the remaining 15 percent, 2 percent comes from the hydroelectric power generated from water wending its way down the hill from Beebe Lake to turbines in the hydroplant under the Suspension Bridge. The other 13 percent is a product of cogeneration.

And now, one of Joyce's favorite topics. Cogeneration, or cogen, is based on a principle that's both simple and creative. Cogeneration produces heat and electricity from one fuel. In a conventional power plant, a boiler produces high-pressure steam that is used to drive a turbine, which

in turn drives an alternator to produce electricity. The exhaust steam is generally condensed to water, which goes back to the boiler and the heat released in condensation is wasted, resulting in an efficiency of only about 35 percent. Cornell's cogeneration plant achieves nearly 80 percent efficiency by heating buildings via an underground steam supply system consisting of 13 miles of piping. It is then reheated and sent out again as steam. Before the steam is sent to the campus it is passed through two steam turbines to produce electricity.

Normal generating plant efficiency is 35 to 50 percent. With the cogen system, built at Cornell in 1986, efficiency is boosted to 80 percent, about twice as efficient as NYSEG's standard production method. And that means savings in both money and resources. "It's a really wonderful technology," says Joyce, "cost-effectively increasing efficiency and helping reduce environmental impacts."

From heating to cooling now – specifically, to one of the largest successes in reducing energy use and overall environmental impact: Lake Source Cooling (LSC).

LSC was conceived in 1994. Like cogen, it is a simple concept; in this case drawing cool water from 250 feet beneath the surface of Cayuga Lake to the LSC plant on Lake Shore Drive, where heat energy is transferred to it from the separate campus closed system, then returning the water to the lake. The cooled campus water is then circulated through the campus.

The \$58 million project was completed in 2000. The re-

sult: Cornell now uses 86 percent less energy for cooling – and no longer relies on harmful chlorofluorocarbon-based refrigerants. Cayuga Lake continues to be carefully studied and monitored, but no negative ecological effects have been found.

Joyce ticks off other campuswide Energy Conservation Initiative efforts: the recently completed \$1.9 million energy efficiency project in the Biotechnology Building; an \$850,000 project that has 1 million square feet newly fitted with more efficient lighting; the variable speed drives that allow systems to run only at the required level; and the updated direct digital controls that make systems more responsive and easily monitored.

Anyone now can access campus energy use in nearly any building via the department Web site, he adds. And the university also has received nearly \$1 million in rebates from the New York State Energy Research and Development Authority for implementing energy-efficient practices.

The class is winding down, and Joyce offers a final thought.

Take responsibility for energy conservation on an individual level, he tells the class. Turn off things you're not using, close fume hoods and shut down computers at night. "The university has yet to turn down an energy conservation program that makes good economic sense," he says. "We'll do everything we can that's cost effective to reduce energy usage. Period."

CTC plans *continued from page 5*

moving in the right direction."

One significant change in CTC's direction, Constable said, is in recognition of the growing number of applications that are data-intensive. CTC has been building expertise in databases and is working closely with the computer science data-mining group, he said.

The addition of John Guckenheimer to CTC's leadership team as associate dean of the Faculty of Computing and Information Science reflects a new emphasis on computational education, Constable added, aimed at creating the next generation of computational scientists and engineers with new,

multifaceted skills.

"Our vision is to provide the highest-end heterogeneous computing environment, to increase the usability of HPC by developing more computational tools, to seamlessly integrate access to powerful databases and to further integrate compu-

tational science and engineering into the curriculum," said Ingraffea. "We maintain a strong commitment to the Cornell research community and collaborators from academia, government and industry. The town hall meeting will help us to understand how best to implement that vision."

CTC management *continued from page 5*

Ingraffea has agreed to serve as the acting director of the Theory Center," said Robert L. Constable, dean of CIS. "With Tony's appointment to this position and John Guckenheimer's appointment as associate dean of computational science and engineering, we have strengthened CTC's management team, charged with broadening its mission and integrating its activities with CIS research and teaching missions."

CIS embraces not only CTC and the Department of Computer Science, but also a network of faculty throughout the university applying computing technology to disciplines ranging from particle physics to textile design.

Ingraffea has taught structural mechanics, finite element methods and fracture mechanics at Cornell since 1977. His research concentrates on computer simulation and physical testing of complex fracturing processes.

"The Theory Center has enabled much of my research," Ingraffea said. "My association with CTC, as a user and as an associate director, has provided an opportunity to make the most of information technology in my research and to push the limits of this technology for future discovery. As the acting director, I look forward to leveraging my experience to benefit all members of the Cornell community."

Ingraffea noted that until a new permanent director is found, he will share decisions collaboratively with the three associate directors, David Shalloway, the Greater Philadelphia Professor of Biological Sciences, Johannes Gehrke, associate professor of computer science, and Keshav Pingali, the India Professor of Computer Science.

Also heavily involved will be CTC executive director

Linda Callahan, David Lifka, CTC director of high-performance systems and innovative computing, and Paul Redfern, associate director for industrial outreach.

Guckenheimer has been at Cornell for 20 years and holds a joint faculty appointment in Cornell's Departments of Mathematics and of Theoretical and Applied Mechanics. He has a long history with CTC: From 1991 to 1996, he was the director of research programs and was one of the center's first users. In addition, he has served the Society for Industrial and Applied Mathematics in a number of capacities, including president (1997-98) and chair of activity groups in both life sciences and dynamical systems. He currently directs the National Science Foundation-sponsored Cornell Integrative Graduate Education and Research Traineeship Program in Nonlinear Systems.

"CIS is very fortunate that John has agreed to serve as associate dean," said Constable. "He is a distinguished mathematician with a great deal of experience in the area of computational science and engineering, both as a past associate director of CTC, director of the Center for Applied Mathematics and past president of the Society for Industrial and Applied Mathematics."

Guckenheimer cited a recent report from the President's Information Technology Advisory Committee noting that "advances in computing and connectivity make it possible to develop computational models and capture and analyze unprecedented amounts of experimental and observational data to address problems previously deemed intractable or beyond imagination."

He noted that "The report ... indicates that [the United States] needs to train many more people in computational science and engineering with multifaceted skills." He explained that "computational science," as distinct from "computer science," focuses on the use of computers to solve scientific problems. "Computational science is now indispensable to the solution of complex problems in every sector, from traditional science and engineering domains to the key areas of national security, public health and economic innovation."

CIS already sponsors a course in computational methods that serves the IGERT (Integrative Graduate Education and Research Traineeship) program funded by the National Science Foundation, and a course in high-performance computing taught by CTC technical director Dave Lifka. Additionally, CIS has established a minor Graduate Field in Computational Science to coordinate computational science education for graduate students across science and engineering disciplines. "We expect there will be a lot more to come, but planning has just beginning now," Guckenheimer said.

Guckenheimer earned his bachelor's degree at Harvard and his Ph.D. at the University of California-Berkeley. Before coming to Cornell, he was a faculty member at UC-Santa Cruz and held postdoctoral and visiting positions at institutions around the world, including the Massachusetts Institute of Technology, Université de Nice, the Institut des Hautes Études Scientifiques, the Institute for Advanced Study, Canterbury University in New Zealand and the Courant Institute at New York University.

calendar

November 17-December 1

Society of India stages Diwali show

The Cornell Society of India presents its annual Diwali Show on Nov. 19 at 7 p.m. at the State Theatre, with talent from student groups bringing together the best of eastern and western cultures. Performers include award-winning Cornell Bhangra teams, student-choreographed groups dancing to the beats of modern Indian culture, an Indian fusion band playing classical and pop tunes and more. Reserved seating tickets are \$8 in advance and \$10 at the door. For more information, visit <http://www.statetheatre-ofithaca.com>.

dance

Fall Step

Shadows dance troupe presents Cornell's largest and longest-running dance event, Nov. 18 at 7 p.m. at the State Theatre, Ithaca. Featuring 15 dance groups music and dances of American pop culture and all over the world, from ballet to belly-dancing to Bhangra. Proceeds benefit On Site Volunteer Services, a student-run nonprofit. Tickets are \$8 in advance and \$10 at the door, available on Ho Plaza Nov. 16-18, at the State Theatre box office, Willard Straight Hall ticket desk and at www.statetheatreofithaca.com.

Theatre, Film and Dance

Fall Dance Theatre Concert, Dec. 1-3, 7 p.m., Class of '56 Dance Theatre, Schwartz Center for the Performing Arts. For information call 254-ARTS.

Cornell International Folkdancers

The club meets Sundays, 7:45-10:30 p.m., Helen Newman Hall. On Nov. 20, Greek and Macedonian dances will be taught. No partner or experience required. Free, small donation requested. For more information, e-mail folkdance@cornell.edu.

exhibits

Johnson Museum of Art

The Herbert F. Johnson Museum of Art, at University and Central avenues, is open Tuesday through Sunday from 10 a.m. to 5 p.m. Admission is free. Telephone: 255-6464. Web site: <http://www.museum.cornell.edu>.

- Façade Projection: Stephen Dean's "Volta," through Nov. 20.
- "Albrecht Dürer: The Master Prints," through Dec. 11.
- "A Portrait of the Artist, 1525-1825: Prints From the Collection of the Sarah Campbell Blaffer Foundation," through Dec. 31.
- "Art to Live By: Gifts From an Anonymous Donor," through Jan. 8.
- "Will Boys Be Boys? Questioning Adolescent Masculinity in Contemporary Art," through Jan. 8.
- For Students Only: Poetry Slam, Nov. 17, 7-9 p.m., slam and open mic. Current exhibitions open and food available. All students are welcome at this free event, hosted by the Museum Club.
- Artbreak: Nov. 20, 2-4 p.m., curator Nancy Green will describe how the museum curates its photography exhibits and collections. \$5 per session, free to museum members and students. Call 255-6464 to register.
- Artist Talk: Nov. 22 at 5:15 p.m., Type A (Adam Ames and Andrew Bordwin) will speak in conjunction with "Will Boys Be Boys?"

John Hartell Gallery

"Brutal Oasis," documenting the travels and discoveries of seven Cornell architecture graduates in four unique and changing places: Morocco, China, Brazil and Costa Rica. Through Nov. 26 in John Hartell Gallery, Sibley Dome. For information e-mail hartellgallery-mailbox@cornell.edu.

Kroch Library

(9 a.m.-5 p.m. M-F; 1-5 p.m. Sat.; closed Sun.)

"Vanished Worlds, Enduring People," Cornell's Native American Collection, through June 2, Hirshland Gallery, level 2B. For information visit <http://nac.library.cornell.edu>, call (607) 255-3530 or e-mail rcrareref@cornell.edu.

Laboratory of Ornithology

"The Art of William Dilger," wildlife paintings by the ornithologist, artist, naturalist and professor



PHOTOGRAPH BY ANDREW GILLIS

Shakespeare's 'Othello' at Schwartz Center

Jealousy and greed thwart true love in the classic tragedy "Othello" by William Shakespeare, being performed at Cornell's Schwartz Center for the Performing Arts Nov. 17-19 and Dec. 1-3. Pictured: Othello (Patrick Rameau) challenging traitorous friend Iago (Martin Hillier). Tickets for the play are \$8 and \$10. Call (607) 254-ARTS to order tickets or visit <http://www.arts.cornell.edu/theatrearts>.

emeritus of ethology, through Jan. 31, Johnson Center for Birds and Biodiversity, Cornell Lab of Ornithology. (607) 254-BIRD.

Museum of the Earth

"Conquering Darkness: The Art of Charles R. Knight," through April 30, Paleontological Research Institution, 1259 Trumansburg Road (Route 96, three miles north of Ithaca). Admission \$3-\$8, members and children age 3 and under free. For information call (607) 273-6623 or visit <http://www.museumoftheearth.org>.

Olin Library

"12 Black Classicists," through Dec. 10.

films

Films are presented by Cornell Cinema, open to the public and screened in Willard Straight Theatre, except where noted. Admission to all films \$6 (\$4.75 for undergraduates and senior citizens; \$4 for Cornell graduate students and ages 12 and under). Call (607) 255-3522 or visit <http://cinema.cornell.edu>.

Thursday, Nov. 17

"The Aviator" (2004), directed by Martin Scorsese, with Leonardo DiCaprio and Cate Blanchett, 6:45 p.m.

"The Aristocrats" (2005), directed by Paul Provenza, 10 p.m.

Friday, Nov. 18

"La Sierra" (2004), directed by Scott Dalton and Margarita Martinez, 7 p.m.

"The Aristocrats," 7:30 p.m., Uris.

"Raging Bull" (1980), directed by Martin Scorsese, with Robert DeNiro and Joe Pesci, 9 p.m.

"Brother to Brother" (2004), directed by Rodney Evans, with Anthony Mackie and Roger Robinson, 9:30 p.m., Uris.

"Moonraker" (1979), directed by Lewis Gilbert, with Roger Moore, Lois Chiles and Michel Lonsdale, 11:45 p.m., Uris.

Saturday, Nov. 19

"The Polar Express" (2004), directed by Robert Zemeckis, with Tom Hanks, 2 p.m.

"Balzac and the Little Chinese Seamstress" (2002), directed by Dai Sijie, with Zhou Xun and Chen Kun, 7:15 p.m., Uris.

An Evening with Editor Thelma Schoonmaker '61, 7:30 p.m., free. Tickets available at WSH ticket desk, limit two per person.

"The Aristocrats," 9:40 p.m., Uris.

Sunday, Nov. 20

"La Sierra," 4:30 p.m.

"The Aviator," 7 p.m.

"Heart and Minds" (1974), directed by Peter Davis, 7:30 p.m.

Monday, Nov. 21

"Douce" (1943), directed by Claude Autant-Lara, with

Odetta Joyeux and Marguerite Moreno, 7 p.m.

"Balzac and the Little Chinese Seamstress," 9:15 p.m.

Tuesday, Nov. 22

"Balzac and the Little Chinese Seamstress," 7 p.m.

"Douce," 9:15 p.m.

Closed for Thanksgiving Break, Nov. 23-27

Monday, Nov. 28

"The Raven" (1943), directed by Henri-Georges Clouzot, with Pierre Fresnay and Ginette Leclerc, 7 p.m.

"The Talent Given Us" (2005), directed by Andrew Wagner, with Allen Wagner and Judy Wagner, 9 p.m.

Tuesday, Nov. 29

"Stolen Childhoods" (2005), directed by Len Morris, narrated by Meryl Streep, 7:15 p.m.

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

Wednesday, Nov. 30

"A Matter of Life and Death" (1946), directed by Michael Powell and Emeric Pressburger, with Kim Hunter and David Niven, 7 p.m.

"A Man When He Is a Man" (1984), directed by Valeria Sarmiento, 7 p.m., Uris, free.

"The Talent Given Us," 9:15 p.m.

Thursday, Dec. 1

"Stolen Childhoods," 7:15 p.m.

"Broken Flowers" (2005), directed by Jim Jarmusch, with Bill Murray, Jeffrey Wright and Sharon Stone, 9:15 p.m.

lectures

Architecture, Art and Planning

For more information visit <http://www.architecture.cornell.edu/>.

"Material Regimes," Ciro Najle, Architectural Association, Nov. 17, 6:30 p.m., 157 E. Sibley Hall.

"Public Art and Fearless Speech," Krzysztof Wodiczko, Massachusetts Institute of Technology, Dec. 1, 6:30 p.m., Lewis Auditorium, Goldwin Smith Hall.

Astronomy

Thomas Gold Lecture: "The Runaway Universe," Roger Blandford, Stanford University, Nov. 17, 4:45 p.m., Schwartz Auditorium, Rockefeller Hall.

East Asia Program

"The Meaning of Nature in Classical Chinese Poetry in Korea," Lee Taek-Dong will lecture in Korean, Nov. 18, 4:30 p.m., 374 Rockefeller Hall.

"The Book of Qi: 'Vital Energy' in China and America," Ruth Rogaski, Vanderbilt University, Nov. 21, 4:30 p.m., 374 Rockefeller Hall.

Institute for Progressive Policy

"Integrated Power: Rethinking Iraq and National Security in the 21st Century," Brian Katulis, Center

for American Progress, Nov. 17, 5:30-7 p.m., 122 Rockefeller Hall.

Lesbian, Bisexual and Gay Studies

"Government-Censored, Publisher Censored: A Tale of Two Articles on Pedophilia and Pederasty," Bruce Rind, Temple University, Nov. 17, 4:30 p.m., 142 Goldwin Smith Hall.

Museum of the Earth

"Extinction at the Beginning of the Age of Dinosaurs: What the Calms Say," Christopher McRoberts, SUNY Cortland, Nov. 18, noon, Paleontological Research Institution, 1259 Trumansburg Road (Route 96, three miles north of Ithaca). For information call (607) 273-6623 or visit <http://www.museumoftheearth.org>. Admission is free.

Southeast Asia Program

"Neighborhood Association in a Jakarta Kampung in the Era of Reformation," Aiko Kurasawa, Keio University, Nov. 17, 12:20 p.m., Kahin Center, 640 Stewart Ave.

music

Department of Music

All events free and open to the public unless noted.

• Nov. 17, 12:30 p.m., B20 Lincoln Hall: 18th-century chamber music with viola.

• Nov. 17, 8 p.m., Willard Straight Hall Memorial Room: "Music From the Islands," Cornell Steel Bands, directed by James Armstrong; and special guest.

• Nov. 18, 8 p.m., Barnes Hall: Jazz Ensemble II with Gussman Jazz Combo and drummer Carl Allen.

• Nov. 19, 8 p.m., Barnes Hall: Jazz Ensemble I featuring drummer Carl Allen.

• Nov. 20, 3 p.m., Barnes Hall: Cornell University Percussion Ensemble and CU World Drum and Dance Ensemble, with director James Armstrong.

• Nov. 21, 8 p.m., Barnes Hall: Studio 342 recital, voice students of Judith Kellock.

• Nov. 22, 8 p.m., Barnes Hall: Student chamber music recital.

• Nov. 28, 8 p.m., Barnes Hall: Pianists Shane Levesque and Thomas Pastuszak perform works by Chopin and Liszt.

• Nov. 29, 8 p.m., Barnes Hall: Cal Tjader Tribute: guest vibraphonist Brian Murphy.

• Nov. 30, 8 p.m., Barnes Hall: Guest recital: Takashi Shimizu, violin, and Avri Levitan, viola.

• Dec. 1, 12:30 p.m., B20 Lincoln Hall: Music by Cornell graduate composers.

• Dec. 1, 8 p.m., Barnes Hall: Guest ensemble: Dave Rivello.

Cornell Folk Song Club

Debby McClatchy will perform Nov. 17 at 8 p.m. in 165 McGraw Hall. Tickets are \$15/advance, \$17/door. \$3 rebate for members, \$2 rebate for children and seniors. For information visit <http://www.cornellfolksong.org/>.

Fanclub Collective

Diagram, Sleeping Kings of Iona and Somatic Umbra will perform Nov. 17 at 8 p.m. at the Lost Dog Lounge, 106 S. Cayuga St. Admission is \$6. For information visit <http://www.rso.cornell.edu/fanclub>.

'Bound for Glory'

Nov. 20: Phil Shapiro and Carrie Shore. "Bound for Glory" is broadcast live, 8-11 p.m. Sundays from Anabel Taylor Hall's Cul de Snack Café, on WVBR-FM, 93.5 and 105.5. Free and open; all ages. Visit <http://www.wvbr.com/bfg>. Albums from the studio during holiday break.

Poetry slam at Johnson Museum



PROVIDED/JOHNSON MUSEUM

The Herbert F. Johnson Museum of Art will host a poetry slam and open mic on Nov. 17 from 7 to 9 p.m., with refreshments and an after-hours opportunity to see the multimedia exhibition "Will Boys Be Boys? Questioning Adolescent Masculinity in Contemporary Art." The event is free and open to the public. To register in advance for the slam, e-mail kje18@cornell.edu or sign up at the museum at 6:45 p.m. the day of the event. For a museum exhibition and event schedule, see <http://www.museum.cornell.edu>.

Tribute to film editor Thelma Schoonmaker '61

>Highlight



PROVIDED/CORNELL CINEMA

Film editor Thelma Schoonmaker '61, who has two Academy Awards for her work on Martin Scorsese's films "Raging Bull" and "The Aviator," will present highlights of her films at a tribute event Nov. 19 at 7:30 p.m. in Cornell Cinema's Willard Straight Theatre. Schoonmaker also will be interviewed on stage by film scholar Kent Jones. A reception in the theatre lobby will follow the program. Tickets for the event are free and limited to two per person, available at the Willard Straight Hall Ticket Desk. For more information, call (607) 255-3522 or visit <<http://cinema.cornell.edu>>.

readings

Africana Studies and Research Center

Michelle Wright, University of Minnesota, will read from her book "Becoming Black: Creating Identity in the African Diaspora," Nov. 22, 4:30 p.m., 310 Triphammer Road. Reception and book signing to follow.

Lounge Hour Reading Series

Poetry by Stephanie Gehring and fiction by Doug Mitchell, Dec. 1, 5:30 p.m., 258 Goldwin Smith Hall.

religion

For a listing of worship services on campus and in the Ithaca area, go to [Cornell United Religious Work](http://www.curw.cornell.edu/workshop.html) at <<http://www.curw.cornell.edu/workshop.html>> or call (607) 255-4214.

Sage Chapel: Freeman Hrabowski, University of Maryland Baltimore County, will lead the service Nov. 20 at 11 a.m. There are no services Nov. 27.

seminars

Africana Studies and Research Center

"Japan and the African Diaspora," Sherry Martin, government, Nov. 30, noon, 310 Triphammer Road.

American Indian Program

For information visit <<http://www.aip.cornell.edu>>.

"Moving Toward a Multicultural Democracy," Winona LaDuke, Native American activist and politician, Nov. 18, 5 p.m., B45 Warren Hall.

"At the Crossroads of Democracy and Sovereignty: Preparing an Educated Citizenry for the 21st Century," Sandy Grande (Quechua), Connecticut College, Dec. 1, 4:30 p.m., 132 Rockefeller Hall.

Anthropology

"Rejecting the 'Ecological Indian': Power Relations and Penobscot Indian Environment Diplomacy, 1720-2005," Darren Ranco, Dartmouth College, Nov. 18, 3:30 p.m., 215 McGraw Hall.

Biochemistry, Molecular and Cell Biology

"Systems Biology: Transforming Biology and Medicine," Leroy Hood, Institute for Systems Biology, Nov. 18, 4 p.m., G10 Biotechnology Building.

Biogeochemistry and Environmental Biocomplexity

"Elevated Atmospheric CO₂ Modifies Leaf Litter Nutritional Quality: Direct Effects on Detrital Food Webs in Headwater Streams," Nancy Tuchman, Loyola University of Chicago at Illinois, Nov. 18, 4 p.m., A106 Corson Hall.

Biomedical Sciences

"The Dynamics of Tight Junctions," Klaus Beyenbach, biomedical sciences, Nov. 22, 4 p.m., Lecture Hall III, Veterinary Research Tower.

"Signaling Mechanisms of Aging and Arthritis," Lisa Fortier, clinical sciences, Nov. 29, 4 p.m., Lecture Hall II, Veterinary Education Center.

Chemistry and Chemical Biology

"NMR Studies of Disorder and Motion in Lithium-Ion Batteries, Fuel Cells and Soil Minerals," Clare Grey, SUNY Stony Brook, Nov. 17, 11:15 a.m., 119 Baker Laboratory.

TBA, Karsten Meyer, University of California-San Diego, Nov. 21, 4:40 p.m., 119 Baker Laboratory.

Herbert Waldmann, Max Planck Institute of Molecular Physiology, will give the following lectures at 4:40 p.m. in 119 Baker Laboratory: "The Chemical Biology of Protein Lipidation," Nov. 28; and "Natural Product and Protein Structure Similarity as Guiding Principles for Chemical Genomics," Nov. 29.

TBA, Abiola Pollard, chemistry, and Brian Crane, chemical biology, Nov. 30, 4:40 p.m., 119 Baker Laboratory.

Crop and Soil Sciences

The following seminars will be held Nov. 17, 12:20 p.m., 135 Emerson Hall:

"Evaluation of Phosphorus Accumulation and Loss Dynamics in Manure Amended Soils: From Process to Landscape Scales," Elizabeth Brock, crop and soil sciences; and "Soil Fertility Degradation and Management in Smallholder Farms of the Highlands of Kenya," Solomon Ngoze, crop and soil sciences.

Development Sociology

Discussion on Nestor Garcia Canclini's "The State of War and the State of Hybridization," Nosheen Ali and Ron Mize, development sociology, Nov. 18, noon, B32 Warren Hall.

Ecology and Evolutionary Biology

"The Evolution of Combined Versus Separate Sexes in Flowering Plants," Spencer Barrett, University of Toronto, Nov. 21, 12:30 p.m., A106 Corson Hall.

Entomology

For updates see <<http://www.entomology.cornell.edu/Jugatae>>.

"The Sand Fly Salivary Protein, Maxadilan: Insights Into the Complex Interactions Among Blood-feeding Insects, Their Hosts and the Parasites They Transmit," Greg Lanzaro, University of California-Davis, Nov. 21, 3:45 p.m., A106 Corson-Mudd Hall.

"Think Outside the Roll: the Ecology and Conservation Biological Control of a Native Leafroller, *Choristoneura rosaceana* (Lepidoptera: Tortricidae), in Both Wild and Agricultural Habitats," Mark Sarvary, entomology, Nov. 28, 3:45 p.m., A106 Corson-Mudd Hall.

Food Science

"Generation and Release of Aroma Compounds in Foods," Devin Peterson, Pennsylvania State University, Nov. 22, 4 p.m., 204 Stocking Hall.

"Retinoids, Differentiation and Cancer," Lorraine Gudas, pharmacology, Weill Cornell Medical College, Nov. 29, 4 p.m., 204 Stocking Hall.

French Studies

"The End of Radicalism: How French Homosexuals Learned to be Gay," Scott Gunther, Wellesley College, Nov. 18, 3 p.m., 106 Morrill Hall.

Government

Political Theory Workshop: "Welfare Policy Today: Neo-Liberal Regulation of the Poor or Neo-Eugenics?" Anna Marie Smith, government, Nov. 18, 3 p.m., 201 A.D. White House.

Humanities and Social Sciences Communications

"Act Out!" a free workshop for non-actors, is a creativity exercise of the voice, body, imagination and heart, with instructor Tom Demenkoff, Nov. 19, 1 p.m., Schwartz Center for the Performing Arts. Registration required. Open to the public. Contact Michelle Cole at <m1c44@cornell.edu> or 255-4206. Co-sponsored by Theatre, Film and Dance.

Information Science

"Transformed Social Interaction in Virtual Reality," Jeremy Bailenson, Stanford University, Nov. 30, 4:15 p.m., 301 College Ave., seminar room. For information visit <<http://www.infosci.cornell.edu/about/seminarSeries.html>>.

Institute for African Development

"Market Institutions in Sub-Saharan Africa," Marcel Fafchamps, University of Oxford, Nov. 17, 2:30 p.m., G08 Uris Hall.

"Africa and Trade Liberalization: The Potential and the Risks," Kathleen Selvaggio, Policy and Advocacy Department, Catholic Relief Services, Dec. 1, 2:30 p.m., G08 Uris Hall

Institute for the Social Sciences

Seminars with Maria Cancian, University of Wisconsin on Nov. 17: A conversation at 11:30 a.m., 146 Myron Taylor Hall. Evolving Family Seminar: "Public and Private Support for Children: Welfare, Child Support and the Child Support Demonstration Evaluation," 3:30 p.m., 114 Martha Van Rensselaer Hall. For information contact <socialsciences@cornell.edu> or 255-3304.

Laboratory of Ornithology

"When Your Wing Is Your Musical Instrument: The Fascinating Story of the Club-winged Manakin," Kim Bostwick, curator of birds and mammals, Nov. 21, 7:30 p.m., Laboratory of Ornithology Auditorium.

Latin American Studies Program

"Os Sem Terra do MST: From the Land Occupation to the Exercise of Citizenship," Abdurazack

Karriem, development sociology, Nov. 29, 12:15 p.m., 153 Uris Hall.

Peace Initiatives in Colombia Conference, Nov. 18, Sage Hall: National Peace Initiatives, 10 a.m.; International Peace Initiatives, 3 p.m. Continues Nov. 19 in Kaufmann Auditorium, Goldwin Smith Hall: Local and Regional Peace Initiatives, 9 a.m.; Toward an Integrated Approach to Peace, 2:15 p.m.

Materials Science and Engineering

"Unconventional Electronics: Past, Present and Future," Ioannis (John) Kymissis, Massachusetts Institute of Technology, Nov. 17, 4:30 p.m., 140 Bard Hall.

"Simulation of Tumor Growth Behavior Using Continuum-based Transport Models," Bruce Murray, SUNY Binghamton, Nov. 29, 12:15 p.m., 178 Rhodes Hall.

Mechanical and Aerospace Engineering

"An Engineer's Role in Corporate Strategy: Helping the Organization Make Better Decisions," Christopher Mazzei, Ernst and Young, Nov. 30, 4:30 p.m., 101 Phillips Hall. Refreshments at 4:15 p.m.

Microbiology

"Survival Biology of *Cryptosporidium Parvum* Oocysts," William Ghiore, microbiology, Nov. 17, 4 p.m., 204 Stocking Hall.

Molecular Biology and Genetics

"Enabling a Predictive, Preventive and Personalized Medicine With Striking Opportunities and Challenges for Society," Leroy Hood, Institute for Systems Biology, Nov. 17, 8 p.m., Call Alumni Auditorium, Kennedy Hall.

Nanobiotechnology Center

"Tracking Protein Recruitment and Dynamics at Specific Inducible Genes In Vivo and in Real Time," John Lis, molecular biology and genetics, Nov. 22, noon, G01 Biotech Building.

Natural Resources

"Spatial Heterogeneity of Soil Fertility in Lowland Tropical Forests," Matt Mirabello, natural resources, Nov. 29, 3:30 p.m., 304 Fernow Hall.

Nutrition

"Work-Family Spillover and the Food Choice Strategies of Low Wage Employed Parents," Carol Devine, nutritional sciences, Nov. 21, 4 p.m., 100 Savage Hall.

TBA, Ji-Yun Hwang, nutritional sciences, Nov. 28, 4 p.m., 100 Savage Hall.

Peace Studies

"Balancing Human Rights and Security Issues in Conflict Areas: The Case of Colombia," Arturo Carrillo, George Washington University; Lt. Col. Rob Levinson, U.S. Air Force; Mary Roldan, Latin American history; Nov. 17, 12:15 p.m., G08 Uris Hall.

"The Faulty Concept of Weapons of Mass Destruction," Allison MacFarlane, Massachusetts Institute of Technology, Nov. 17, 3 p.m., 153 Uris Hall.

Plant Biology

TBA, Ted Klein, DuPont Experimental Station, Nov. 18, 11:15 a.m., 404 Plant Science Building.

Plant Breeding and Genetics

"Integrated Analysis of Aluminum Tolerance in Maize," Owen Hoekenga, Boyce Thompson Institute, Nov. 22, 12:20 p.m., 135 Emerson Hall.

"Prebiotics and Iron Nutrition: Can Inulin Reduce

>Highlight



PROVIDED

Allen swings with jazz ensembles

Drummer Carl Allen will join the Cornell University Jazz Ensembles for two free concerts Nov. 18 and 19 at 8 p.m. in Barnes Hall. The Friday evening concert will feature Jazz Ensemble II and the Gussman Jazz Combo, and on Saturday evening Jazz Ensemble I will perform. Allen, a jazz artist in residence at Cornell, also is a composer, bandleader and producer. He played in trumpeter Freddie Hubbard's band from 1982 to 1990, also serving as musical director and road manager; and as a teenager he backed up jazz greats Sonny Stitt and James Moody. For more information, visit <<http://www.arts.cornell.edu/music>>.

Chronicle calendar deadlines

Nov. 24: no issue - Thanksgiving break

Dec. 1 issue (calendar for Dec. 1-8): Monday, Nov. 21

Risk for Iron Deficiency By Enhancing Iron Bio-availability," Dennis Miller, food science, Nov. 29, 12:20 p.m., 135 Emerson Hall.

Plant Pathology

"The Genetic Architecture of Complex Traits: Lessons From *Drosophila*," Trudy Mackay, North Carolina State University, Nov. 30, 12:20 p.m., 404 Plant Science Building.

Plant Science

"Nitrogen and Iron Assimilation in *Vaccinium*: What Can We Learn From the Wild?" Rebecca Darnell, University of Florida, Nov. 21, 11:15 p.m., 404 Plant Science.

"Sugar Trafficking and Phloem Loading in Apples Leaves: Pictures, Plasmolysis, Promoters and Proteins Light the Way," Edwin Reidel, horticulture, Nov. 28, 11:15 p.m., 404 Plant Science.

Policy Analysis and Management

For a full colloquium schedule visit <<http://www.sloan.cornell.edu>>.

"Issues and Challenges in Long-Term Care," Craig Evans, The Woodlands at Ardsley; and Mike Weidner, Strong Health System, Nov. 18, 11:30 a.m., 153 Martha Van Rensselaer Hall.

Psychology

"Speech, Melodies and Invaders From Space: The Formation and Tuning of Auditory Categories," Lori Holt, Carnegie Mellon University, Nov. 18, 3:30 p.m., 202 Uris Hall.

Public Affairs

"Fair Trade Coffee: An Analysis of Consumers' Perceptions Regarding How Fair Is Fair," Arnab Basu, College of William and Mary, Dec. 1, 4:30 p.m., 100 Caldwell Hall.

Real Estate

"The Real Estate Cycle: Are We at the Top?" Michael Pralle, president and CEO, GE Real Estate, Nov. 17, 4:30 p.m., 398 Beck Center.

Romance Studies

For more information visit <<http://www.arts.cornell.edu/romance/>>.

"Maurophilia and the Morisco Subject," Barbara Fuchs, University of Pennsylvania, Nov. 18, 4:30 p.m., Romance Studies Lounge, Morrill Hall.

Science and Technology Studies

For information visit <<http://www.sts.cornell.edu/activitiestalkscoll.php>>

"From Counterculture to Cyberculture: How the 'Whole Earth Catalog' Brought Us Virtual Community," Fred Turner, Stanford University, Nov. 28, 4:30 p.m., 374 Rockefeller Hall.

South Asia Program

"Death and the Nabob: Commemorating the British Dead in Eighteenth Century Calcutta," Robert Travers, history, Nov. 21, 12:15 p.m., G08 Uris Hall.

"Gentlemanly Terrorism: The Politics of Violence in Interwar Bengal," Durba Ghosh, history, Nov. 28, 12:15 p.m., G08 Uris Hall.

Textiles and Apparel

"User to Producers: Natural Fibers (Jute and Coir) and Their Application," Shobha Bhatia, Syracuse University, Nov. 17, noon, 317 Martha Van Rensselaer Hall.

Theoretical and Applied Mechanics

"Vibration Theory of Piezoceramic Rods," Joerg Wauer, University of Karlsruhe, Germany, Nov. 30, 4:30 p.m., 205 Thurston Hall.

Triple Helix Conference

The first Triple Helix conference, celebrating the release of the first national issue of Cornell's journal of science, society and law, Nov. 19, 2-4 p.m., Uris Hall Auditorium. Free and open to the public. Talks: "Honesty in the Singular Object: What Ethics Can Come out of Science?" with Professor Roald Hoffmann; and "Medical Quackery's Roughly Based on Physics," with Professor Robert Richardson. For information visit <<http://www.thetripelhelix.org>>.

theater

Melodramatics

"Bat Boy: The Musical" will be performed in Riskey Theatre, Nov. 17, 7 p.m.; Nov. 18, 8 p.m.; Nov. 19, 2 and 8 p.m. and Nov. 20, 7 p.m. Tickets are \$5 and can be purchased at <<http://www.melodramatics.com>>.

Teatrotaller

Sergi Belbel's "Después de la lluvia," a work where corporate affairs and human desires take center stage, will be performed Nov. 17 at 8 p.m. in Barnes Hall Auditorium. For information contact <ajs225@cornell.edu>.

Theatre, Film and Dance

For information visit <<http://www.arts.cornell.edu/theatreats/>>.

William Shakespeare's "Othello," Nov. 17-19, 8 p.m., Kiplinger Theatre, Schwartz Center. Continues Dec. 1-3. Tickets \$8 and \$10, call 254-ARTS.

miscellany

Asian Pacific Americans for Action

An evening with comedian Vijai Nathan, Nov. 19 from 8 to 10 p.m. in Alice Statler Auditorium, a funny and poignant exploration of the struggle to discover, create and claim an Indian-American identity. Free and open to the public.

Astronomy

Celebrate one Martian year (687 Earth days) of successful operations on the surface of Mars by the Mars Exploration Rover "Spirit," Nov. 18, 3 p.m., 105 Space Sciences Building.

Society for India

Annual Diwali celebration with live music, dance and skits, Nov. 19 at 7 p.m. at the State Theatre, 109 W. State St., Ithaca. Reserved seating tickets are \$10 at the door, \$8 in advance, available at the State Theatre box office, the Willard Straight Hall ticket desk, from Society for India members or call (607) 273-4497 to order.

Fuertes Observatory

Public viewing nights, every clear Friday from 9 to 11 p.m. at Fuertes Observatory. Call 255-3557.

International Education Week

The School of Industrial and Labor Relations hosts an information session on international undergraduate opportunities, Nov. 18 at noon in 280 Ives Hall.

Willard Straight Hall Anniversary

The Willard Straight Hall Student Union Board is holding a reception in honor of the 80th anniversary of Willard Straight Hall. Nov. 18 at 7 p.m. on Willard Straight Hall's fourth floor. The event is free; RSVP to (607) 255-7131.

sports

For details on Cornell athletic events visit <<http://cornellbigred.collegesports.com/>>.

Men's Basketball

Nov. 17, at Coaches vs. Cancer Classic Semifinals, TBA
Nov. 18, at Coaches vs. Cancer Classic Final, TBA
Nov. 19, at Penn State, TBA
Nov. 22, Colgate, 7 p.m.
Nov. 26, at Hartford, 2 p.m.
Nov. 29, at Lafayette, 7 p.m.

Women's Basketball

Nov. 19, at St. Bonaventure, 4 p.m.
Nov. 20, at St. Bonaventure Shootout, TBA
Nov. 23, at Canisius, 7 p.m.
Nov. 26-27, at UNH Thanksgiving Tourn., TBA

Men's Cross Country

Nov. 19, at IC4A Champs TBA
Nov. 21, at NCAA Champs TBA

Women's Cross Country

Nov. 19, at ECAC Champs TBA
Nov. 21, at NCAA Champs TBA

Women's Equestrian

Nov. 19, at Skidmore Invit., TBA

Football

Nov. 19, at Penn, noon

Men's Ice Hockey

Nov. 18, Union, 7 p.m.
Nov. 19, Rensselaer, 7 p.m.
Nov. 25, Niagara, 7 p.m.
Nov. 26, at Niagara, 7 p.m.

Women's Ice Hockey

Nov. 19, Wayne State, 2 p.m.
Nov. 20, Wayne State, 1 p.m.
Nov. 26, at Colgate, 2 p.m.
Nov. 27, Colgate, 2 p.m.

Men's Polo

Nov. 17-20, Bill Field Invit., TBA

Women's Polo

Nov. 17-20, Bill Field Invit., TBA

Men's Squash

Nov. 19, Penn, 10 a.m.
Nov. 20, Western Ontario, noon
Nov. 20, Princeton, 3 p.m.

Women's Squash

Nov. 19, Penn, 10 a.m.
Nov. 20, Princeton, 3 p.m.

Men's Swimming

Nov. 18, at Princeton, Swim, 5 p.m.
Nov. 19, at Princeton, Dive, noon
Nov. 30, Binghamton, Dive, 2:30 p.m.
Nov. 30, Binghamton, Swim, 5 p.m.

Women's Swimming

Nov. 19, at Princeton, noon
Nov. 30, Binghamton, 5 p.m.

Women's Volleyball

Nov. 19, TBA, Ivy Playoffs, TBA

Wrestling

Nov. 19, Body Bar Invit., All Day

A great morning for juggling



JASON KOSKI/UNIVERSITY PHOTOGRAPHY

Two jugglers warm up in Bartels Hall on the morning of Nov. 12 during the 9th Annual Big Red JuggleFest. The campus event, sponsored by the Cornell Juggling Club, featured contests, workshops, vendors and performances by and for juggling enthusiasts from the Northeast and Canada.

UMBC President Freeman Hrabowski, expert on minority-student educational performance, to speak Nov. 20

Freeman Hrabowski, a leading expert on improving the academic performance of African-American students in math and science, will be in Ithaca Sunday, Nov. 20, to deliver a Sage Chapel address at Cornell and be the featured participant in a Community Forum on Education and Society at the Ithaca Town Hall in downtown Ithaca. Both events are free and open to the public.



Hrabowski

The Sage Chapel address will be at 11 a.m., and the community forum, titled "Education for the 21st Century: Creating a Climate of Success for All Students," will be from 2 to 4:30 p.m. in the main courtroom of the Ithaca Town Hall, 215 N. Tioga St. Parents and teachers are especially invited to attend the forum, which will begin with a half hour of social time and refreshments.

Hrabowski's visit is jointly sponsored by the offices of Stephen Hamilton, Cornell vice

provost for outreach; Kenneth Clarke, director of Cornell United Religious Work; Robert Harris, Cornell vice provost for diversity and faculty development; The Village at Ithaca; and the Ithaca City School District.

Hrabowski is president of UMBC, the University of Maryland, Baltimore County, which he has made into a leading source of African-American Ph.D.s in math and the sciences. Over the past three decades, he has spent much of his professional career studying minority student achievement and addressing the achievement gap between minority and white students. He has focused special attention on the under-representation of minority students, particularly African Americans, in the sciences, mathematics and engineering. A key outcome of his efforts was the creation in 1988 of the Meyerhoff Scholars Program for high-achieving minority students in these fields at UMBC. By all measures, the program's positive outcomes are striking. Approximately 600 competitively selected students have enrolled in the program, and since the

first group of graduates in 1993, nearly 400 Meyerhoff students have earned degrees, with 85 percent going on to graduate and professional programs nationwide.

Born in 1950 in Birmingham, Ala., Hrabowski was involved at an early age in the civil rights movement. He participated in Dr. Martin Luther King Jr.'s children's crusade, and he also knew one of the young girls killed in the Birmingham church bombing of 1963. He graduated at age 19 from Hampton Institute, with highest honors in mathematics, received his M.A. in mathematics from the University of Illinois at Urbana-Champaign, and four years later, at age 24, his Ph.D. in higher education administration/statistics. He serves as a consultant to the National Science Foundation, the National Institutes of Health and universities and school systems nationally. He also sits on numerous corporate and civic boards.

In 2004, he was selected as one of the 50 Most Important Blacks in Research Science by Science Spectrum Magazine.

'Danny the Red' delivers talk of reform, not revolt

BY CARA HOFFMAN

Franco-German Green Party leader and former student revolutionary Daniel Cohn-Bendit, known for his charismatic speeches during the May 1968 student uprising in Paris, spoke Nov. 11 at Hollis E. Cornell Auditorium on campus.

In the wake of serious riots and political unrest that have spread throughout France in recent weeks, Cohn-Bendit's talk was anticipated with excitement. But the youth who charged the police barricades in 1968 and earned the sobriquet "Danny the Red" because of his flaming hair made it clear that he is sitting safely on the fence today.

Cohn-Bendit's lecture, "The Franco-German Dialogue in the European Community," was an advance keynote presentation for a conference on Franco-German Relations in New Europe, jointly sponsored by Cornell's German Cultural Studies Institute and the French Studies Program.

The speaker, a man who once led Vietnam-era protests in Paris that shut down the Sorbonne for 34 days and sparked a general strike by 10 million French workers, opened

his timely lecture by talking about the opportunities born from political chaos, and championed a message of reform, not revolt.

Much of the 60-minute lecture focused on Franco-German history following World War II and the postwar parallels that exist today as new political opportunities arise.

No one in the 1930s and 1940s, Cohn-Bendit said, would have believed that France and Germany could overcome the great wars, conflicts and animosity between them, to become allied. "The fear of communism that was the beginning of European unification eventually made wars between the separate nation-states impossible," he said.

Cohn-Bendit added that the world is similarly unable to predict the outcome of the current chaotic global situation. But a strong Europe, he said, is essential for the future. "Europe has a task in the world to see that the core of decisions be made by the United Nations," he said.

Cohn-Bendit touched on the current unrest in France only briefly, toward the end of his talk, saying that the violence seen today is not new but is an increase in the violence

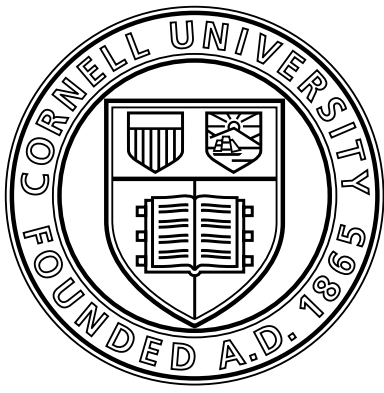
that occurs everyday, and that Europe must develop a new model of immigration to answer what he called its "demographic problems."

The talk was informed by the same paradoxical sensibilities reminiscent of slogans from the May 1968 uprising. But instead of "be realistic – demand the impossible" or "it is forbidden to forbid," Cohn-Bendit used the old Jewish saying, "If you have only two possibilities, always choose the third."

This idea seemed as much a part of his position as a Green Party politician as a call to create new political opportunities.

Cohn-Bendit, a publicist and politician, was born in France to German-Jewish parents who had fled Nazism in 1933. He grew up in Paris and moved to Germany in 1958. After being forced to leave France for his anti-government activities, he returned to Germany and became a leader of the German Green Party. In 1994, he was elected to the European Parliament and, in 1999, became the leader of the French Green Party.

Cara Hoffman is an Ithaca-based freelance writer.



Jobs at Cornell

www.ohr.cornell.edu/jobs

November 17, 2005

General Application Information

Located in Ithaca, N.Y., Cornell University is a bold, innovative, inclusive, and dynamic teaching and research university where staff, faculty, and students alike are challenged to make an enduring contribution to the betterment of humanity.

Cornell University is an equal opportunity/affirmative action educator and employer. Positions will be listed in this paper for one week. These listings are only announcements of open positions; they are not complete descriptions of jobs and their responsibilities. Detailed descriptions are normally provided by the department, if you are contacted for an interview. For those who do not have easy access to a computer, computers are accessible at various locations across campus, local employment agencies, area libraries and the Recruitment and Employment Center.

If you have general questions about employment or if you are interested in temporary opportunities at Cornell, please contact Cornell's Recruitment and Employment Center at 607-254-8370; TTY 607-255-4943; 337 Pine Tree Rd., East Hill Plaza, Ithaca, NY 14850; email <employment_svcs@cornell.edu>. The Recruitment and Employment Center is open Monday-Friday, 8:00 a.m. – 4:30 p.m.

How to Apply

To be considered an applicant for positions at Cornell, you must follow the application process below:

- Applicants for non-academic staff and librarian positions must apply **on-line** through the *Jobs at Cornell* web site at <<http://www.ohr.cornell.edu/jobs>>, following the instructions therein. *Tip: to assist you in locating these positions on-line, note the job number that appears after the job title.*
- Applicants for all other positions must apply by following instructions in each of the job advertisements.
- You must apply separately for each position in which you are interested.

General Employment Sessions

- Tuesdays 10:00 - 11:00 a.m.
The Recruitment and Employment Center, 337 Pine Tree Road, East Hill Plaza, Ithaca, NY
To register, contact Janet Beebe at 254-8370, TTY 255-4943, or via e-mail <employment_svcs@cornell.edu>
- 1st & 3rd Fridays 1:00 - 3:00 p.m.
Workforce New York, Resource Room, Center Ithaca, 171 East State Street Ithaca, NY
To register, contact Dawn Potter at 272-7570, extension 118 or via e-mail <dawn.potter@labor.state.ny.us>

During the General Employment Session talent are provided with the opportunity to: discover career opportunities, learn more about the employment application process, obtain tips to getting noticed, and meet 1:1 with a Recruitment Consultant.

Additional Information about the Job Postings: Commonly Used Terms

Working title – if two titles are listed, the first title will be the working title designated by the department as representative of the responsibilities of the position

University job title – appears in italics after the working title. If only one title appears, no working title was designated

Pay band or level – the level to which the university job title is assigned, based on the position's purpose and requirements

Exempt or "EX" – indicates the position is not eligible for, or is exempt from, overtime pay

Non-exempt or "NEX" – indicates the position is covered by the federal Fair Labor Standards Act and therefore is eligible for overtime pay

Recruiting range – (optional) indicates the range in which a new hire's pay rate is usually established. Actual pay is determined by college/unit guidelines and each applicant's position-related qualifications.

CL & R – cover letter & resume

Academic Support

Research Aide III (04767); Level C; Non-exempt; 11-14-2005; Food Science and Technology; Recruiting Range \$13.35 to \$15.70

Position is located in the Department of Food Science and Technology at the New York State Agricultural Experiment Station in Geneva, N.Y. Provide technical, computer and administrative support to the Interregional Research (IR)-4 Northeast Regional Program (NER), under the overall direction of the IR-4 Northeast Regional Director. Work in close collaboration with both the IR-4 Regional Laboratory and Field Coordinators in minor crop pesticide residue research, and provide assistance to the Quality Assurance (QA) Coordinator as needed. Provide support in various aspects of the IR-4 field program for food crops and ornamentals under the direction of the North East Regional Field Coordinator (RFC). Collaborate with the IR-4 Regional Laboratory Coordinator and Field Coordinator to build up and maintain databases; and assist in improving current databases to keep up to date with new technologies.

Qualifications: Bachelor's degree or other formal training program of four years or equivalent. A minimum of two years practical experience as a technical and administrative assistant is preferred. Computer knowledge required. Ability to establish effective working relationship with supervisors, coworkers and others. Demonstrate excellent organizational and communication skills, be flexible and innovative. Capability to use technical programs for data input or word processing to create documents and/or reports. Visual concentration, manual dexterity and ability to work with a high level of attention to detail are required. Ability to move boxes/trays (20-50lbs). Limited expo-

sure to hazardous chemicals. Some traveling will be necessary, especially for GLP training. **Position posted through November 21, 2005.**

Biorobotics Lab Manager (04689); Research Supp Spec III; Level G; Exempt; 11-14-2005; Theoretical & Appl Mechanics; Recruiting Range \$43,900 to \$62,525

This position is supported by a grant from the National Science Foundation and expires July 2007. The Biorobotics Laboratory Manager will provide operational, technical, and administrative support for the operations of the Biorobotics Laboratory in Theoretical and Applied Mechanics. This laboratory is involved with design and construction of robots which are inspired by, and intended to increase the understanding of, human and animal motion. Additionally the laboratory is concerned with the study of human beings from the robotic point of view: How does the human machine work? The laboratory has the mission of designing and building robots more advanced, in some regards, than any others in the world. Further, the research on humans is intended to advance the understanding of the human machine. The Biorobotics Laboratory Manager will supervise and be responsible for the completion of design and construction of a sequence of walking robots, including conceptual design, numerical and analytical simulation, computerized solid modeling, machining, circuit design, microprocessor selection and programming, mechatronic design, assembly, testing, debugging, and modifying. This individual will also participate in writing up research results for publication, and in the preparation and writing of new proposals for funding for robotics research and for studies of human motion. This latter work includes the design and performance of preliminary experiments. These experiments

require the same general skills as the robotic design.

Qualifications: Master of Engineering or other formal training of 5 years or equivalent in a technical field in addition to four or more years of engineering experience. The student supervision, training, and grant proposal work involved in this position requires an individual with good written/verbal communication skills, at a level suitable for contributions to scientific papers and proposals. The individual in this position will be expected to manage multiple complex scientific projects to successful conclusions, while observing budget constraints. Success in this position requires him or her to be highly self-motivated and able to work effectively with minimal supervision. He or she must be able to supervise and manage effectively the efforts of up to 20 undergraduate and MEng student researchers. Good organization and attention to detail are required. Proficiency (not just minimal experience) with CAD, machining (including CNC), analog and digital circuit design, and microcontrollers.

Administration

Administrative Asst II (04769); Level B; Non-exempt; 11-14-2005; Cornell University Hospital for Animals; Recruiting Range Negotiable

Provide clerical as well as technical assistance in a fast-paced medical records department. Search location of medical records in database as well as file all medical reports (i.e., lab work, pharmacy, radiology, etc.) in the appropriate medical record file, which requires a high level of accuracy and efficiency. Respond to phone and walk in requests for medical records, including but not limited to locating records for appointments, clinicians and students. Review medical records for completion and conformance of ac-

Bulletin Board

Cold-Weather Clothing Drive Set to "Share the Warmth"

Cornell and Ithaca-area communities can help others cope with the oncoming cold by contributing new and used clothing to the 13th Annual "Share the Warmth" campaign.

Scheduled to run Monday, November 14, through Friday, December 2, the drive is open to Ithaca College and Cornell University students, faculty, and staff, as well as Ithaca-area residents. Clothing can be new or good-condition used winter hats, coats, sweaters, scarves, boots, and other cold-weather articles that may be dropped off at the following locations around campus: all undergraduate residence halls and community centers, all graduate housing service centers, Statler Hall, Mann Library, Anabel Taylor Hall, East Hill Plaza, Vet School Medical Center, Carpenter Hall Engineering Library, Humphreys Service Center, Day Hall, Ives Hall, Martha Van Rensselaer Hall, Sibley Hall, and Willard Straight Hall.

All clothing donated at Cornell will be collected through Campus Life Facilities. Volunteers will then participate in the "Big Sort" at Cornell's Ecology House on December 6. The "Big Sort" will be organized by the Ecology House Recycling Committee.

Staff Development Opportunities

Open House for On-line Learning

Whatever your need for skills enhancement or additional business knowledge, you can begin to meet it by taking one of more than 2000 on-line courses offered through Cornell at no charge to you or your department. Come to one of the open houses listed below or contact Organizational Development Services at 254-6400 or <org_dev@cornell.edu> to obtain an ID and password. You can then access the SkillSoft e-learning site at <<http://suny.skillport.com>>.

Open Houses: Register for the open houses at: <<http://register.cit.cornell.edu:8000/>>.

November 30 (Class 3348) Noon - 1:00 p.m.; G25 Stimson

December 15 (Class 3349) Noon - 1:00 p.m.; G25 Stimson

January 25 (Class 3350) Noon - 1:00 p.m.; G 25 Stimson

SkillSoft On-line Courses

Accounting Fundamentals (FIN0121): After taking this course you will be able to: recognize the advantages of applying the fundamentals of accounting; match the generally accepted accounting principles to examples of their definitions; identify which of the 3 account types, asset, liability, and owner's equity, are affected in a given transaction; apply the accounting equation, given the accounts; and determine whether accounts are recorded as a debit or credit in a given transaction. You will also be able to: recognize the advantages of maintaining accounting records; match source documents to examples of their transactions; determine the correct entries of given transactions in a general journal; perform posting procedures to a general ledger; perform the steps to taking a trial balance; identify the techniques for locating errors; recognize the importance of preparing proper financial statements; identify revenue and expense accounts; balance an income statement given a set of data; determine the capital in a statement of owner's equity for the end of the accounting period; identify the features of a balance statement; balance a balance statement given a set of data; identify a cash transaction as an operating activity, investing activity, or financing activity; and balance a cash flow statement given a set of data. Expected Duration: 3.5 hours

Participating Effectively in Business Meetings (COMM0333): A meeting is a gathering of people to present or exchange information, plan joint activities, make decisions, or carry out actions already agreed upon. Almost every group activity or project requires a meeting, or meetings, of some sort. Knowing how to hold efficient and effective meetings can help make projects successful. In a good meeting, participants' ideas are heard, decisions are made through group discussion and with reasonable speed, and activities are focused on desired results. Good meetings help generate enthusiasm for a project, build skills for future projects, and provide participants with techniques that may benefit them in their future careers. As a chairperson, a secretary, or a group member, it is crucial to your meeting's success to know what your role is during a meeting. By knowing your duties, you can effectively assume one of these roles and help to attain success during your meetings. Expected Duration: 5.0 hours

Upcoming Workshops

We hope you take a minute to look through the workshops listed below from the *2005-2006 Guide to Workshops for Staff and Faculty*. Register for the following courses at: <<http://register.cit.cornell.edu:8000/>>. Questions can be directed to Organizational Development Services at 254-6400.

Rolling Out The Big Red Carpet: Developing a Service Culture at Cornell University (Class 3231); November 29, December 6 & 13; 9:00 a.m. - 4:00 p.m.; 20 Thornwood Drive, Suite 101 (note: location change); primary Staff Skill for Success: Service-Minded; Instructor: Jim Sheridan, senior trainer, ODS; \$125

Moving at the Speed of Light versus Moving at the Speed of Life (Class 3326); November 30; 2:00 p.m. - 3:30 p.m.; primary Staff Skill for Success: Self Development; Instructor: Cora Ellen Luke MA, NCC, RPT, clinician and workplace consultant, Employee Assistance Program; no charge

Strategies for Handling Performance Problems (Class 3289) December 1; 9:00 a.m. - 12:00 p.m.; B12 Day Hall; primary Staff Skill for Success: Communication; Instructor: Vashti Peagler, senior human resource associate and consultant, OHR; no charge

Supervisory Roundtable Discussions: Supervising the Four Generations at Work: What You Should Know (Class 3293); December 5; 12:00 p.m. - 1:15 p.m.; 163 Day Hall; primary Staff Skill for Success: Self Development; Instructors: Linda Gasser, assistant director/senior OD consultant; Jim Sheridan, senior trainer, ODS; no charge

Life Transitions: Grandparents Raising Children (Class 3246); December 6; 11:30 a.m. - 12:45 p.m.; 170 Roberts Hall; primary Staff Skill for Success: Self Development; no charge

Resume Guidance & Interviewing Techniques (Class 3307); December 7; 12:00 p.m. - 1:00 p.m.; 163 Day Hall; primary Staff Skill for Success: Self Development; Instructor: JoAnn Shepherd, senior human resource consultant and manager, Professional Development, ODS; no charge

Project Management Methodology (Class 3287) December 8 & 9; 9:00 a.m. - 4:00 p.m.; 166 Hollister Hall, McManus Lounge (note location change); primary Staff Skill for Success: Teamwork; Chet Warzynski, director, Organizational Development Services and Linda Gasser, assistant director/senior OD consultant; \$150

(continued on next page)

ceptable hospital and regulatory standards. Identify and obtain missing signatures or required reports. Clarify and correct patient information in both the medical record and database. Provide copies of medical records for clients and referring veterinarians, ensuring compliance with all hospital release policies and procedures are followed and ensuring patient/client confidentiality. Daily filing of all complete medical records in the file room.

Qualifications: Formal training beyond a high school diploma of 6 to 12 months with 1-2 years experience working in an office environment, or equivalent combination of education and experience. Must have knowledge and understanding of medical terminology. Accuracy, strong attention to detail, and strong organizational skills essential, along with excellent communication skills. The filing aspect of this position requires the ability to stand for long periods of time along with the ability to bend, stretch and lift. Basic knowledge of computer programs. Experience in a medical office setting preferred. **Position posted through November 28, 2005.**

Data Specialist (04740); Data Entry Oper II; Level B; Non-exempt; 11-07-2005; Information Services Gift and Biographic Records

This position is responsible for properly updating the Alumni Affairs and Development system with biographic, demographic, gift giving data for all university alumni and friends and/or produce data output such as recognition and mailing efforts. Work with and interpret data which originates from various sources, which may include doing background research to clarify the data. The person in this position will also identify inaccuracies in the database. Create basic biographic and/or gift data reports as requested. Work with university staff, alumni and friends to verify data inputting accurately reflects their intentions. The position is responsible for one or two areas of specialization. The person will work closely with other data specialists, individual giving officers, and department personnel for both consultation regarding specific requirements for entering data and to help ensure that the university's policies and procedures are followed.

Qualifications: Formal training beyond a High School diploma of six months to one year and one to two years of experience, or equivalent is required; an Associates degree and one to two years in a complex office environment is preferred. Demonstrated experience working in a high volume data entry environment is strongly preferred. Must have strong interpersonal skills; effective written, verbal and telephone communication skills; and be committed to providing customer service. Must be able to effectively work in a detail oriented and complex work environment, with a diverse group of people, which are both internal and external to the organization. Must have strong organizational skills, be detail oriented, and have demonstrated the ability to work with confidential information which is highly sensitive and personal in nature. You must be flexible, able to set priorities and meet established deadlines. Must be able to pay close attention to detail, able to review the work of others and capable of troubleshooting when necessary. Experience auditing the work of others would be very beneficial. Must be able to work, at an advanced level, with desktop applications, databases, networked information systems and the Internet. Experience working, at an advanced level, with Microsoft Office Suite applications (Word, Excel and PowerPoint), databases (FileMaker and Access), and networked information systems (Peoplesoft) is strongly preferred.

Administrative Asst III (04719); Level C; Non-exempt; 11-08-2005; HE Admiss, Registr, Stdt Svcs; Recruiting Range \$13.35 to \$15.70; Part-time

The College of Human Ecology (CHE) Admission, Student and Career Services department seeks a detail-oriented team player to fill the role of Administrative Assistant. This position will provide administrative support for staff in Student and Career Development, as well as assist with multiple ongo-

ing and occasional projects, events, and activities. This position will assist Director of Student and Career Development, counseling staff, and administrative staff in meeting organizational goals as they prioritize multiple, concurrent responsibilities. It also works cooperatively with and in support of the admissions and student development staff. This is a 10-month, part time position (approximately 27.5 hours/week). The standard schedule is September 1 - June 30, Monday - Friday, 9:00 - 3:00.

Qualifications: Our ideal candidate will have formal training beyond a high school diploma of 6 months to one year's duration with 2-4 years relevant experience, or equivalent combination, as well as the following qualifications: Bachelor's degree is preferred. Proficient with technology and range of Microsoft Office programs. Ability to exhibit good judgment and patience. Well-developed interpersonal and customer services skills. Must be able to multi-task while serving a diverse group of counselors with a broad range of needs. Ability to exercise sound judgment in all circumstances. Must possess patience and flexibility, as well as a commitment to excellence in accuracy, accountability, and quality of work. Must have a high-level communication skills (reading, writing, editing, listening, and speaking). Telecommunications skills are important. Ability to prioritize multiple projects is critical. Ability to work effectively as a team player with diverse populations. Knowledge of University environment and familiarity with Student Services and Career Services is helpful.

Administrative Asst IV (04755); Level D; Non-exempt; 11-09-2005; Graduate School Administration; Recruiting Range \$14.70 to \$18.70

We are looking for a detailed-oriented individual to join our team. The Graduate Student Services Assistant provides administrative support to applicants, graduate students and graduate fields. The assistant serves as a single point of contact for applicants, graduate students, graduate field assistants and directors of graduate studies in an assigned set of graduate fields. Interact with other university offices to assist graduate students resolve issues such as those concerning billings, visa status, and insurance. Interpret Code of Legislation rules and regulations applying appropriately to each situation (committee selection, leaves, withdrawals, etc.). Oversee the processing of Graduate School applications. Counsel and advise prospective and continuing students on how to apply for admission. Respond to conflicts and suggest possible resolutions. Using working knowledge of university student information system, assist new students to resolve problems with university registration and bursar billing problems. Maintain records. Assist international students with financial certification and Test of English as a Foreign language requirements. Develop and maintain various databases to track and evaluate graduate student activity. Design and develop ongoing and ad hoc reports. Represent the university and the Graduate School to a wide variety of external constituencies. Back-up office receptionist during lunch breaks and vacations.

Qualifications: Formal training beyond HS of 1-2 years, 2 years of college coursework, or Associate's with 4-6 years experience or equivalent combination. Applicants must have excellent interpersonal skills and strong communication skills--both written and oral. Well-developed organizational and customer service skills are expected as is proficiency with desktop computer systems. Experience with Cornell's mainframe computer systems is preferred. Maturity, professionalism, and discretion is expected when meeting the needs of our diverse graduate student population. Discretion includes respect for confidential information. Applicants must possess the ability to work independently and as a team member.

Finance/Budget/Planning

Research Accountant (04746); Accounts Rep IV; Level D; Non-exempt; 11-08-2005; Mechanical & Aerospace Engr

One of two positions that administers

the sponsored research financial activity of the Administrative Services Group for the Sibley School of Mechanical & Aerospace Engineering and the department of Theoretical and Applied Mechanics. Provide high level financial support to Finance Lead, PI's, and Director of Administration. Administer approximately 150 sponsored research accounts for assigned group of PI's (~30). Manage account activity to keep within budget limitations. Verify that expenditures are in compliance with applicable University, Federal, and/or corporate policies and regulations. Prepare financial projections and monthly analysis statements for PIs. Identify and propose solutions for financial issues and/or problems as they arise. Act as liaison with the Office of Sponsored Programs Services (SPS) concerning status of research proposals and in dealing with problems concerning accounts. Audit accounts receivables, following up with SPS and agencies on contract payments. Prepare invoices and complex agreements with SPS and agencies for hybrid research agreements. Calculate salary commitments for a large number of faculty, staff and students supported on research contracts. Reconcile salary charges and process salary transfers to redistribute employees' effort, monitor student tuition charges made on contracts, and process salary recovery transfers, etc. Prepare numerous, complex budgets for research proposals, using internal budget templates. Keep abreast of new guidelines and forms required by funding agencies and design new or update current budget templates to accommodate new guidelines.

Qualifications: Formal training beyond HS of 6 months-1 year with 2-4 years experience or equivalent combination. Associate's degree in Accounting/Finance strongly preferred. Must be friendly, out-going, willing to work in a fast-paced, shared office with many interruptions, and have a strong customer service orientation. PC proficiency & work experience using Excel, Word, Accounting Data Warehouse, or similar software, & mainframe applications are required and must be able to retrieve and manipulate data from multiple sources and online warehouses. Must demonstrate ability to handle sensitive and confidential data with discretion. The ability to multi-task and work within tight deadlines is required. Successful candidate will possess strong analytical, logic, organizational & interpersonal skills as well as the ability to work independent with minimum supervision. Must be able to prioritize & manage multiple projects of varying complexity & urgency. Ability to construct complex financial statements requiring an understanding of the inter-relationships of the data. Successful completion of Cornell Accounting Certification Program and demonstrated CU experience in accounting and/or research administration are highly desirable.

Health

Counselor Therapist II (04762); Level G; Exempt; 11-10-2005; Gannett Health Services

Gannett Health Services Counseling and Psychological Services (CAPS) is searching for two Counselor Therapists. These are full time term positions from earliest possible December hire date to May 31, 2006. Responsibilities include providing assessment, counseling, and group services for students experiencing psychological, psychosocial and developmental difficulties. Responsibilities include individual and group psychotherapy, as well as consultation with faculty, staff, and parents regarding student mental health issues.

Qualifications: Master's degree with license eligibility, MSW, or doctorate in clinical or counseling psychology or a closely related field; possess and maintain a New York professional license as a social worker, psychologist. Two years' experience in a clinical setting, preferably in a college counseling center. Experience with outreach, therapy groups, and psycho-educational interventions, strong assessment skills and the ability to be effective with a broad range of clinical concerns. Ability to communicate effectively verbally and in writing; experience

Bulletin Board

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Have You Thought About Taking A Class? (Class 3263); December 12; 2:00 p.m. - 3:00 p.m.; 163 Day Hall; primary Staff Skill for Success: Self Development; Instructor: Maureen Brull, program manager life & education plans, Benefit Services; no charge

Working With Difficult People (3327); December 13; 1:00 p.m. - 4:00 p.m.; 163 Day Hall; primary Staff Skill for Success: Teamwork; Instructor: Linda Starr, MSW, CSW, Employee Assistance Program; no charge

Power, Politics & Possibilities: Understanding Influence in Organizations (Class 3358) December 14; 8:30 a.m. - 12:00 p.m.; 163 Day Hall; primary Staff Skill for Success: Self Development; Instructor Linda Gasser, assistant director/senior OD consultant, ODS; \$35

Stuck in a Rut, or, Same Old-Same Old: Finding Ways to Get Going (Class 3328) December 15; 2:00 p.m. - 4:00 p.m.; 163 Day Hall; primary Staff Skill for Success: Motivation; Instructor: Jim Morris, MSW, CSW-R, clinician and workplace consultant, Employee Assistance Program; no charge

Listen with Understanding (Class 3276) December 20; 1:00 p.m. - 4:00 p.m.; 163 Day Hall; primary Staff Skill for Success: Communication; Instructor: Jim Sheridan, senior trainer, ODS; \$35

Mentor for TC3 Courses

Tompkins Cortland Community College (TC3) has a special mentor to assist Cornell University staff members and their families who are taking, or are interested in taking, TC3 courses. The mentor, Professor Kevin Haverlock, can provide information on TC3 programs and services, academic advisement, basic skills assessment, learning assistance, and some career counseling. For the Fall semester, he will be available to meet with you from 8:30 - 11:00 a.m. on Nov. 30 in B16 Day Hall (location change); Dec. 14 in B12 Day Hall; and Dec. 21 in B16 Day Hall. The TC3 mentor can be reached via e-mail: <haverlk@sunytcce.edu> or call 844-8222, x4215.

Benefits Appointments

Aetna Inc. Phone Appointments

Aetna Inc. is available for phone appointments every Tuesday to resolve endowed health care claims issues. Please contact Michael Bryant in Benefit Services at 255-1604 or via e-mail at <mlb223@cornell.edu> to schedule an appointment.

Financial One-on-One Consultations

Call 1-877-209-3144 for an appointment with **TIAA-CREF:**
November 23,30 130 Day Hall

Call 1-315-521-1830 for an appointment with **MetLife** or 273-7341 (Ithaca) or 1-315-781-8603 (Geneva) for more information:

November 18 130 Day Hall
November 23,30 Geneva

Call 1-800-642-7131 for an appointment with **Fidelity:**
November 22 130 Day Hall

Contract College only: Call 1-888-883-6320 for an appointment with **ING** (10:30 a.m.-2:00 p.m.):

November 22,29 Vet School

Upcoming Technical Training

CIT Training & Documentation is offering the following classes this fall. Class outlines can be viewed at: <<http://cit.cornell.edu/training/courses/>>. Please register for classes by going to: <<http://register.cit.cornell.edu:8000/>>, and direct any questions about these classes to: <workshop-info@cornell.edu>.

Word - Working with Tables (Class 3492) December 8; 1:00 p.m. - 3:00 p.m.; B08 CCC Bldg; no charge

PowerPoint - Creating Diagrams (Class 3493) December 13; 10:00 a.m. - 12:00 p.m.; 120 Maple Ave., room 150; no charge

Word - Mail Merge (Class 3494) December 13; 1:00 p.m. - 3:00 p.m.; 120 Maple Ave., room 150; no charge

Microsoft Access Foundation I (Class 3466) January 5-6; 8:30 a.m. - 4:30 p.m. each day; 120 Maple Ave., room 150; register by December 9; \$220

Active Directory Core-Part A (Class 3467) January 9-11; 8:30 a.m. - 4:30 p.m. each day; 120 Maple Ave., room 150; register by December 16; \$870

Java 2 Programming (Class 3107) January 16-20; 8:30 a.m. - 4:30 p.m. each day; 120 Maple Ave., room 150; register by December 23; \$1450

Certified Information System Security Professional (Class 3468) January 30-February 3; 8:30 a.m. - 4:30p.m. each day; 120 Maple Ave., room 150; register by January 6; \$1800

Certified Wireless Security Professional (Class 3512) February 6-10; 8:30 a.m. - 4:30 p.m. each day; B04 CCC Bldg; register by January 20; \$2050

Oracle 10g Database PL/SQL (Class 3523) February 13-17; 8:30 a.m. - 4:30 p.m. each day; B04 CCC Bldg; register by January 20; \$2050

Certified Ethical Hacker (Class 3469) February 27-March 3; 8:30 a.m. - 4:30 p.m. each day; 120 Maple Ave., room 150; register by February 3; \$1800

and demonstrated ability in providing culturally sensitive counseling services to diverse populations and members of traditionally underrepresented groups. Strong interpersonal skills, ability to work effectively in teams and in coordination with other health center and university staff in addressing mental health issues.

Physician - Occupational Medicine/Primary Care (04759); Level I; Exempt; 11-10-2005; Gannett Health Services

Gannett Health Services is committed to providing multi-disciplinary, culturally sensitive, integrated medical and mental health services for a dynamic and diverse university community. We are seeking a full time Physician to provide services to the Cornell community in occupational medicine and primary care. The successful candidate will spend 50% of his/her time as the primary occupational medicine physician for the university, working with the Gannett health Services occupational medicine team providing: pre-place-

ment exams, medical surveillance, work-related injury and illness care; assistance with regulatory compliance issues; review of research protocols involving a wide range of chemical, physical, biologic, and zoonotic agents; participation in the development and implementation of Occupational Medicine policies; strategic planning for the Occupational Medicine program; and interaction with various campus departments and populations. The additional 50% of time will be dedicated to providing primary care to the campus community.

Qualifications: MD or DO with current NYS license, BC/BE in Occupational Medicine. The successful candidate will have an interest in and concern for health problems encountered in a campus community.

Physician (04760); Level I; Exempt; 11-10-2005; Gannett Health Services

Gannett Health Services is committed to providing multi-disciplinary, culturally sensitive, integrated medial and

mental health services for a dynamic and diverse university community. We are seeking a part time Primary Care physician who will work with the primary care team, provide direct ambulatory primary patient care to students of the University, and to the Cornell community. This is a 20 hour/week 11 month position.

Qualifications: M.D. or D.O. with current NYS license, BC/BE in internal medicine, family medicine, or other appropriate specialty. The successful candidate will have an interest in and concern for health problems encountered in a campus community.

Information Technologies

IT Support Asst IV (04763); Level E; Non-exempt; 11-11-2005; VM Information Technology

Provide analytical and technical computer support for the College of Veterinary Medicine. Assess needs and educate staff and faculty about existing and emerging information technologies, set specific service priorities and objectives. Manage and maintain numerous desktop/laptop computers to support the daily operations and ensure excellent customer service in the department that supports faculty, staff, postdocs, and graduate/student employees. Must possess the ability to explain technical information to non-technical staff while maintaining professionalism at all times. Make purchase recommendations for new computers, both PC and Mac. Perform client set-up. Ensure security patches are installed. Coordinate hardware upgrades and repairs. Maintain equipment inventory, IP registry and physical security. Maintain software license inventory and ensure compliance. Maintain service contracts. Implement recommended IT best practices and policies. Individual will be expected to identify, monitor and troubleshoot problems, resolving them to the users' satisfaction. Must be available to assist users during normal operating hours (generally 8:30Am - 5:00 PM) as well as be available on-call for emergencies and/or special projects. Will coordinate and conduct training programs for end-users in the department, i.e., give demonstrations, address questions and assist other department personnel during the implementation of college-wide system changes.

Qualifications: Bachelor's degree in Computer Science with 1-2 years of related IT experience or equivalent combination of education and experience. Experience/training in the management, installation and troubleshooting of PC- and Mac-based operating systems and software. Familiarity with web applications, MS Office applications, network environments and security measures (use of virus recovery tools, management of anti-virus software; software patch management; spy-ware removal; etc) is also required. Demonstrated excellent communication (written and oral) and organizational skills as well as strong and responsive customer-service orientation and excellent interpersonal communications skills are required. Ability to work collaboratively in team environment. Preferred Qualifications: Familiarity with Eudora, Oracle Calendar, and Outlook is desirable. **This position will be posted through November 25, 2005.**

Consultant/Advisor Sr.(04684); Level F; Exempt; 11-11-2005; Payroll Office; Recruiting Range \$36,900 to \$56,375

Participate in the implementation of information technology for important payroll processes. This includes, but not limited to testing of PeopleSoft (PS) payroll functions in new software release version 8.9. Position may require use of testing management and testing productivity software; participate in the implementation of new PS applications, and support the testing of all PS tax & fix upgrades. Analysis of the payroll data and the processes is an important element of the job. PeopleSoft system specialist knowledge and the development of tools and methods to identify problems are required. Implementation of new applications requires the documentation of the new payroll processes. As an integral part of the implementation process, training is necessary to insure

accurate paychecks and proper customer service. Position operates under general supervision from the Director of Payroll. Work in close cooperation with Director of Financial Systems on technology initiatives.

Qualifications: Bachelor's degree with 3-5 years experience or equivalent combination in a business discipline such as accounting, information science or related field. At least two years of experience in analysis, design, development, deployment and support of enterprise level applications. Experience in business modeling and UML expected. Experience in Payroll desired. Excellent interpersonal and organizational skills required. Demonstrated ability to gather information from many sources about business needs and to evaluate actual requirements based on business objectives-not current practices. Knowledge of PeopleSoft, project management and Cornell practices preferred. Experience in software application testing management and execution preferred. The ideal candidate has experience at Cornell, knowledge of payroll and finance and exceptional analytic capability. The ideal candidate is experienced in enterprise level application integration issues, complex conceptual data modeling, and project leadership and application design. **Position posted through November 20, 2005.**

Custom Applications Programmer/Analyst (04757); Prog/Analyst Spec; Level G; Exempt; 11-10-2005; CIT Business Info Systems

As a member of Cornell Information Technologies (CIT) Information Systems unit, provide support for custom administrative applications and services using various technologies and operating systems including: Java, servlets, JSP, Struts, Spring, Tomcat, Apache, JDBC, webMethods, SQL, HTML, XML, ColdFusion, web services, relational databases, Adabas/Natural, Windows, Mac, Unix, etc. Support for these applications and services includes requirements gathering, design, development, testing, implementation, system testing, problem investigation, problem resolution, ongoing support, and maintaining excellent relationships with customers.

Qualifications: Bachelor's degree or equivalent experience with 5-7 years experience in information technology. Extensive experience developing and maintaining complex applications and proven ability to analyze requirements and meet deadlines are required. Must be able to develop project plans: prioritize across multiple and simultaneous activities; estimate project resource requirements; exercise stakeholder management across diverse campus constituencies. Must be able to work in a fast paced, deadline driven, extremely complex, and rapidly changing environment. Excellent written and verbal communication skills, analytical abilities, and interpersonal skills are essential. Must have experience with object oriented design and development. Proficiency with Java, SQL, integrating multiple technologies, etc. is required. Must demonstrate an ability to develop competence in new subject areas with little or no formal training or oversight, and continuously expand knowledge about technology and methods supportive of campus business processes. Experience with multiple operating systems highly desirable.

Technical

Technician III (04560); Level C; Non-exempt; 11-07-2005; Horticultural Sciences; Recruiting Range \$13.35 to \$15.70

Under direction of Manager of the Seed Laboratory, conduct official seed purity analysis on all kinds of seed and seed mixtures submitted to the New York State Seed Testing Laboratory for the purpose of determining seed quality. Species include cereals, flowers, forage, herbs, trees and shrubs, turf and lawn, vegetable and wildflower. For each species submitted, a specific weight of seed is determined and then analyzed. The percentage of pure seed, inert, weed seed and "other crop" seed is mathematically determined. Weed and "other crop" seed must be correctly identified by scientific name. Knowledge of the official AOSA (Association of Official Seed Analysts)

rules, which include purity testing procedures, the use of purity testing equipment, state and federal seed laws and understanding seed taxonomic terms are necessary. All reported results are confidential. Errors could result in potential legal action. Samples must be tested according to prescribed procedures, if available. Must work in a team atmosphere and be flexible to changing customer needs.

Qualifications: Bachelor's Degree or other formal training program of four years or equivalent; more than 2 years experience. Understanding of plant nomenclature; certification in seed purity testing required. The ability to accurately identify seed species and perform the necessary official purity tests prescribed in the AOSA rules is also required. Sound judgment, excellent reasoning and decision-making skills, meticulous record keeping and ability to work with diverse personalities. Must be able to work under pressure with a great deal of initiative. Proceed alone on regular tasks consulting with supervisor only on questionable situations. Excellent organizational skills with the ability to prioritize multiple projects in a fast paced environment. Ability to work well with others is required while creating a high-quality and respectful work environment. Must be able to work independently while supporting the efforts of an overall team. Ability to communicate with tact and diplomacy with a wide range of internal and external constituencies is a must. Must have demonstrated ability to handle sensitive/confidential material in a professional manner.

Systems Operator I (04731); Level D; Non-exempt; 11-07-2005; Natl Astronomy Iono Ctr; Recruiting Range \$11.00 to \$16.00

The Arecibo Observatory is recruiting a telescope operator to support the telescope equipment and scientific staff. Set up observing equipment and monitor equipment operation during observing runs. Recognize equipment failures and take appropriate action. Document telescope usage and status of telescope systems. Requires the ability to diagnose and resolve problems, working as part of a five-person team supporting the telescope on a 24-hour, 7-day/week, 365 days/year schedule. Required to work evenings, weekends, and holidays as part of a regular rotating shift. Must occasionally go to the antenna platform (500ft) to perform minor maintenance functions. Telescope operators are a highly visible team who interface constantly with the visitors and users of the Observatory. Good communication, teamwork, and ability to establish and maintain productive work relationships are critical to achieving success in this position. The AO is operated by Cornell University under a cooperative agreement with the U.S. National Science Foundation. The 305 m telescope is used for radio and radar astronomical studies and investigations of the Earth's ionosphere. Information about the Observatory and NAIC can be found at www.naic.edu <<http://www.naic.edu>>. The successful candidate will be an employee of Cornell University and eligible for all applicable Cornell benefits offered to Observatory staff. **Position is based in Arecibo, Puerto Rico and not at the Ithaca Campus.**

Qualifications: Formal training beyond HS of 1-2 years, 2 years of college coursework, or Associate's degree with 2-4 years experience or equivalent combination.

Union (General Service)

Seasonal Grounds Worker (04730); Level SO04; Non-exempt; 11-08-2005; Robert Trent Jones Golf Course; Minimum Hire Rate 11.79

Eight month, seasonal grounds worker (approximately mid March-mid November) for Robert Trent Jones Golf Course at Cornell University. Perform manual labor for general landscape maintenance of golf course grounds, including mowing, landscape/grooming, repairs and other duties to achieve required standards.

Qualifications: High School Diploma or equivalent; Valid motor vehicle operator license required. Minimum of one-year experience with landscape/turfgrass maintenance related to golf. Preferred knowledge of the game

of golf. Experience with operating a variety of power equipment (mowers, trimmers, backhoe and others). Subject to shift changes and extended working hours (including nights, early mornings, evenings, weekends and holidays) to meet seasonal work demands. Subject to working in weather related extremes of heat and cold for extended periods. **Send cover letter and resume to: Pam Dollaway, Human Resource Manager, Athletics & Physical Education, Teagle Hall, Campus Road, Ithaca, NY 14853. Position posted through November 22, 2005.**

Field Assistant SO05 (04750); Level SO05; Non-exempt; 11-08-2005; Animal Science; Minimum Hire Rate \$12.14

The role of the field assistant is to provide assistance in tillage, spraying, planting and harvesting of field crops for approximately 6 months per year. Assist with the repair and maintenance of field crop vehicles and equipment as necessary. Assist in land improvement efforts and handle and haul animals as needed. The remaining 6 months involves assisting in the care of 700-800 experimental calves, heifers and cows. This involves working in the areas of herd health, feeding, milking, cattle movement, bedding of stalls, animal waste removal, care of young animals and the treatment of sick animals as needed. Assist with blood, fecal, urine or feed sampling etc. Assist veterinarians as needed. Administer treatments as prescribed by supervisor, herdsman, research and veterinarians. Keep accurate records on all animals such as treatments, location changes, estrus, growth measurements and research projects to meet AAALAC requirements. Clean and maintain calf hutches, maternity stalls or any other housing system used. Assume responsibility of the crew leader during assigned weekends or other absences.

Qualifications: High School Diploma or equivalent. 2-3 years of experience directly related to dairy cattle and farming. Knowledge of animal health issues and demonstrated experience in the treatment of animals. Must have a valid CDL license, Class B with air brake and tank endorsements. Must have dependable transportation to get to work. Demonstrated experience operating and maintaining agricultural equipment such as tractors, manure spreaders and milking equipment. Good math and record keeping skills. The successful candidate must be personable, flexible, possess excellent communication and organizational skills and take pride in their work. Demonstrated ability to develop effective working relationships with a wide variety of students, faculty and staff. Ability to create an inclusive, high-quality and respectful work environment both in a team setting and independently to achieve departmental and university goals. Highly motivated and exhibits innovation, good judgment and reliability in the work place. Experience directing the work of others. Must be safety oriented. Must be willing to work under varying climatic conditions and be exposed to loud noise, dusty conditions, animal wastes and odors. Must be able to lift 50-100lbs on a regular basis. Must be willing to work extended hours as necessary to accomplish goals. Must have Pesticide Applicators License 1A and be able to obtain Pesticide Applicators License 1B. Associate's degree preferred. Experience working in a research environment preferred. **Please send cover letter and resume to Mary Ellen Niederhofer, CALS HR, 265 Roberts Hall, Cornell University, (mn15@cornell.edu). Position posted through November 22, 2005.**

Dairy Worker (04747); Level SO06; Non-exempt; 11-08-2005; Animal Science

The Department of Animal Science at their Teaching and Research Center in Harford, NY is seeking a highly motivated individual to assist the Dairy Program with Herd Health. The main role of this position is to care for fresh and/or sick animals as well as calves, heifers and newborn calves within the dairy unit. Assist with calving. This position will also assist others in the immediate work group or other dairy

groups as necessary, keep accurate records on all calves and heifers, clean and maintain hutches, administer treatments as prescribed by supervisor, herdsman, researchers and veterinarians, maintain supplies. Assist in the areas of feeding, milking, waste removal, hoof trimming and bedding of animals. Assist veterinarians as needed. Keep accurate records on all animals such as treatments, location changes, estrus, growth measurements and research projects to meet AAALAC requirements. Clean and maintain calf hutches, maternity stalls or any other housing system used. Assume responsibility of the crew leader during assigned weekends or other absences. Possess knowledge to assess a situation and contact veterinarians and maintenance personnel if necessary.

Qualifications: High School Diploma or equivalent. 3-5 years of experience directly related to dairy cattle and farming. Knowledge of animal health issues and demonstrated experience in the treatment of animals. Must demonstrate good communication skills. Must be safety oriented. Must be willing to work under varying climatic conditions and be exposed to loud noise, dusty conditions, animal wastes and odors. Able to lift 50 lbs. Good math and record keeping skills. Experience directing the work of others. Must be willing to work extended hours as necessary to accomplish goals. The successful candidate must be personable, flexible, possess excellent organizational skills and take pride in their work. Ability to develop effective working relationships with a wide variety of students, faculty and staff. Ability to create an inclusive, high-quality and respectful work environment both in a team setting and independently to achieve departmental and university goals. Highly motivated and exhibits innovation, good judgment and reliability in the work place. Experience working in a research setting preferred. Associate's degree in Animal Science preferred. **Please send cover letter and resume to Mary Ellen Niederhofer, CALS HR, 265 Roberts Hall, Cornell University. <mn15@cornell.edu>. Position posted through November 22, 2005.**

Temporary

Office Manager - Graduate and Professional Student Housing - Term Appointment (04766); Administrative Asst III; Level C; Non-exempt; 11-14-2005; CL-Grad & Professional Admin

This individual will participate as an integral member of the professional management team for planning, setting the agenda and directing the overall educational and business enterprise including coordination of administrative, communications, financial, purchasing, service, personnel, training and educational functions for approximately 50 personnel across a wide geographic area in 4 locations on campus. Provide coordination and administrative support for management and financial functions, human resources and other general activities. The individual is expected to exercise independent judgment in responding to high priority situations and reporting requirements that arise within the functional area. Other duties as assigned. **This position is a limited term that will start ASAP and end on July 21, 2006.**

Qualifications: Formal training beyond HS of 6 months-1 year with 2-4 years experience or equivalent combination. Excellent computer skills including Excel, Word, PowerPoint, Filemaker or similar database software, Brio or other reporting software, calendar, email, and web based applications. Proven ability to quickly learn new office systems, procedures, and responsibilities. Financial and cash management experience required. Exceptional interpersonal relations, customer service skills and professional attitude necessary. Excellent written communication skills, including editing and proofing. Able to produce accurate and organized work. Experience in maintaining confidential files. Self-starting - ability to take initiative in pursuing information. Ability to prioritize and manage numerous activities at one time. Strong organizational skills

and attention to detail important. Previous supervisory experience expected. Multi-cultural/global understanding and sensitivity is necessary. Open-mindedness necessary. Preferred skills: Associate's or Bachelor's degree in business administration, secretarial science, or related discipline with five years experience in a fast-paced, multi-person office or equivalent combination of education and experience. Delegation skills. Knowledge of higher education, financial reporting, housing services, and Cornell and its various operational, accounting and reporting systems preferred. Event planning skills preferred. Travel or experience living abroad would be an asset.

Academic

Extension Associate (04756); 11-10-2005; Hudson Valley Laboratory

Provide leadership and expertise in entomology in the Hudson Valley Laboratory in Highland, N.Y. where this position is located. Facilitate and lead regional extension activities and associated applied research in tree fruits (80%) and vegetables (20%) within Cornell Cooperative Extension and the College of Agriculture and Life Sciences. Collaborate with the Grape Entomologist at Geneva to address insect concerns of grape growers in the Hudson Valley. Address needs associated with area and regional program planning, impact documentation and the development of educational materials. Establish applied research programs on tree fruits and vegetables, the results of which are relevant to local and regional stakeholders. Requires multidisciplinary knowledge and activity including, but not limited to, the disciplines of entomology, phytopathology, application technology and horticulture.

Qualifications: A master's degree in entomology, phytopathology, horticulture or other relevant field is required. Candidates should have experience in the development of extension programs and program materials, as well as a strong background in arthropod pest management. A minimum of five years' experience is desired in field research, efficacy assessment and field applications of chemicals designed for arthropod pest management. Must be able to obtain certification from the New York State Department of Environmental Conservation to apply restricted pesticides and supervise the application thereof. **Send resume, academic transcripts and names, addresses, phone and email addresses of three references to: Dr. Arthur Agnello, Chair, Search Committee, Department of Entomology, Cornell University, NYSAES, Geneva, N.Y. 14456. Telephone (315) 787-2341; Fax (315) 787-2326; Email <ama4@cornell.edu>. Applications accepted through February 15, 2006 or until a highly satisfactory candidate is identified.**

Post Dr. Assoc (04302); 8-10-2005; Natural Resources

The Department of Natural Resources within the College of Agriculture and Life Sciences (CALs) at Cornell

University seeks a highly motivated environmental social scientist to work with an interdisciplinary team on a NSF funded Coupled Natural and Human Systems project entitled "Understanding linkages between social and biogeochemical processes in agricultural landscapes". Working with a team of social scientists, biogeochemists and plant scientists, we seek to analyze spatial (in) congruence of knowledge resources, farm management and water pollution in the Mississippi River drainage. The project will evaluate hypotheses regarding institutional linkages supporting co-evolution of organizations, production systems and ecosystem processes. Sociologists, geographers, economists and others with environmental social science interests and expertise are encouraged to apply.

Qualifications: Applicants should have a Ph.D. or be within two months of having a completed Ph.D. in environmental social science and some demonstrated interest in agriculture. Experience with qualitative research methods and academic writing is essential. **This is a 2-year appointment with possible extension depending on funding. Informal inquiries are welcomed by Steve Wolf (<saw44@cornell.edu> To apply, send cover letter and CV to Alisa Gardner (acg4@cornell.edu), 17 Plant Science Building, Tower Road, Cornell University, Ithaca, NY 14853. Applications will be accepted until February 28th, 2006.**

Post Dr Assoc (04734); 11-08-2005; Pop Medicine & Diagnostic Sci

The Department of Population Medicine and Diagnostic Sciences invites applications for a one-year full-time Postdoctoral Associate position in infectious disease modeling. The individual hired will join a team of researchers investigating the transmission of multi-drug resistant Salmonella in animal hosts. The position offers excellent opportunities for collaboration in molecular epidemiology, infectious disease and epidemiological modeling, food safety and public health.

Qualifications: Individuals with a Ph.D. in mathematical modeling, infectious disease transmission, or analytical epidemiology are encouraged to apply. Computer and mathematical expertise and a strong interest in infectious diseases are required. Applicants should have excellent oral and written communication skills and the ability to work effectively with faculty, graduate students and technicians. Salary will be commensurate with qualifications and experience. The position provides health insurance and other university benefits. **Apply by sending a cover letter describing your research interests and career goals, a curriculum vitae, and names and contact information for three references to Dr. Lorin D. Warnick. Applications should be sent as a single Microsoft Word or pdf file with a file name consisting of the applicants first and last name. Include Modeling Post Doc in the subject line of e-mails related to this position and send e-mail to <ldw3@cornell.edu>. Evaluation of candidates will begin**

immediately and continue until the position is filled.

Prof Asst (04758); 11-11-2005; Geneva Plant Pathology

This tenure-track position is located in the Department of Plant Pathology at Cornell University's New York State Agricultural Experiment Station in Geneva, N.Y. This position addresses two functional areas - extension (50%) and research (50%), and includes responsibility for leading the statewide extension program on tree fruit and berry crop pathology in cooperation with other Cornell extension faculty and personnel. The extension component must involve an education program using traditional and innovative communication technologies. The program must address the cause and control of tree fruit and berry crop diseases in New York State, and should be directed toward extension educators, growers, private consultants and agribusiness personnel. A nationally recognized research program that is supportive of the extension responsibility is required. It should include both collaborative work and an independent focus of interest to the candidate that complements existing department programs. The research objective should further the development of integrated pest management programs that address tree fruit and berry crop diseases of importance in New York State. Besides traditional plant pathology, use of modern technologies including quantitative epidemiology, molecular genetics and genomics would be appropriate. The individual is expected to obtain external funding to support the research and extension programs. Mentoring of graduate students is expected.

Qualifications: A Ph.D. in Plant Pathology or related discipline, with broad knowledge and interest in innovative approaches to the study of disease biology, epidemiology and disease management is required. Applicant must be committed to developing and communicating practical disease management programs within the framework of modern integrated pest management concepts. To the extent possible, participation in the Cornell University New Life Sciences Initiative <www.lifesciences.cornell.edu> is encouraged. Practical experience or knowledge of fruit crops and disease control practices is desirable, but not required. The ability to write and speak effectively for diverse audiences and to work well with others is essential. **Applicants are to submit a letter of application, resume, academic transcripts and names, addresses, phone numbers and email addresses of three references to: Dr. Robert C. Seem, Department of Plant Pathology, Cornell University, NYSAES, Geneva, N.Y. 14456. Phone (315) 787-2388; Fax (315) 787-2389; Email <rcs4@cornell.edu>. Applications will be accepted through January 15, 2006 or until a satisfactory candidate is identified.**

Assistant, Associate, or Full Professor of Production and Operations Management (04367); 11-07-2005; Johnson Grad Sch Management

The Johnson School invites applicants

in Production and Operations Management at the level of Assistant, Associate, or Full Professor starting July 1, 2006. He or she will be responsible for teaching basic and advanced courses in operations management at the MBA and Ph.D. levels; research in area(s) of expertise and interests; supervision of doctoral candidates; interdisciplinary contribution to the research and teaching of other faculty members; and service to the School. While all candidates will be considered, preference will be given to candidates with a proven record of research and training.

Qualifications: Applicants should have completed a doctorate or be at the dissertation stage of a doctoral program. **Direct inquiries to: Professor Lawrence W. Robinson, S.C. Johnson Graduate School of Management, Cornell University, 433 Sage Hall, Ithaca, NY 14853-4201. Applications should include a curriculum vita, copies of representative research papers, and names and contact information of three references. Doctoral students and recent graduates should include letters of recommendation from these references. Those just completing the doctoral degree should include a research paper that represents their progress on the dissertation. Start Date: July, 2006.**

Cooperative Extension

4H Community Educator (04752); Extension Community Educator, Level 006; Exempt; 11-07-2005; Wayne Cnty Coop Ext Assn

Cornell Cooperative Extension Wayne County (Newark, NY) is searching for a 4H Community Educator. Responsible for handling duties as determined by the 4-H Team Coordinator and the 4-H Advisory Committee in support of the 4-H club program and other youth development programs for Cornell Cooperative Extension of Wayne County. Work in cooperation with the 4-H Team that includes the Team Coordinator, other extension staff, the 4-H Advisory Committee, and 4-H Program Development Committees. Duties include but are not limited to marketing the 4-H program, supervising volunteers, and coordinating subject-matter-based programs and their related administrative activities for an existing local educational effort. Give support and input for grants and contracts. Guide program planning, implementation, and evaluation in youth and family development consistent with identified educational program needs. Provide some direct program delivery and community education in youth and family development. See <http://www.cce.cornell.edu/careerops/Wayne_4H.htm> for full position description.

Qualifications: Bachelor's degree and 1 year of relevant experience in a non-formal education system such as Cooperative Extension. Major course work in volunteer management, youth and family development, education, or human resources management preferred. Volunteer or work experience in community education or Cooperative Extension preferred. **Applications will be reviewed beginning 12/16/2005,**

or until an acceptable pool of applicants has been identified. Send letter of intent, resume, and transcripts to: Stephen Billings, 4-H Youth Development Team Coordinator, Cornell Cooperative Extension Wayne County, 1581 Route 88 North Newark, NY 14513, (315) 331-8415, <sjb16@cornell.edu>.

Cornell Affiliated Organizations

Discovery Trail Coordinator (04748); 11-07-2005; Cornell Affiliate; Part-time

The Discovery Trail of Tompkins County seeks a part-time coordinator with a background in marketing, fund raising, public relations, and project management. A position description and application instructions are available at: <http://www.discoverytrail.com/> or call 607-255-0348. **Deadline for applications is December 2, 2005.**

Postdoctoral Associate (04773); 11-14-2005; Exempt; Cornell Affiliate

Three postdoctoral positions are open to study the molecular basis of plant disease resistance and susceptibility using as a model system the interaction of tomato leaves with the bacterial pathogen *Pseudomonas syringae* pv. *tomato*. Our laboratory studies various aspects of plant-bacterial interactions including: **a)** molecular basis of bacterial pathogenesis, especially the role of type III effector proteins in disease susceptibility; **b)** early host events underlying plant immunity, especially those events involving the Pto kinase and the Prf NB-LRR protein; and **c)** host signal transduction events underlying basal and Pto/Prf-mediated defense responses. Open Positions: 1) Biochemical characterization of bacterial type III effector protein AvrPtoB, an E3 ubiquitin ligase; 2) MAP kinase signaling in plant defense; and 3) Exploiting natural variation in tomato to investigate plant basal defense responses.

Qualifications: Applicants must have a strong publication record and, depending on the position, demonstrated expertise in protein biochemistry, molecular plant pathology, plant molecular biology, microbiology, and/or plant genetics and map-based cloning. Experience with protein purification and mass spectrometry is an advantage for the AvrPtoB project. **Send a cover letter, a statement of research interests and a CV including the names of three references to: Gregory B. Martin, Boyce Thompson Institute for Plant Research, Tower Road, Ithaca, NY 14853, Job # 2005-13. Email: gbm7@cornell.edu. Applications will be reviewed beginning on January 10, 2006 and the positions will remain open until filled. For more information see: <http://ppathw3.cals.cornell.edu/ppath/FacultyInfo/Martin.htm>.**

Jobs at Cornell

Internet Address: www.ohr.cornell.edu/jobs

Distributed free and available to staff and faculty at locations around campus. **Jobs at Cornell** is also located on the Internet (see Internet address above). **Deadline for posting jobs is on the Monday before publication.**

Cornell University Statement on Equal Education and Employment Opportunity

Cornell University has an enduring commitment to support equality of education and employment opportunity by affirming the value of diversity and by promoting an environment free from discrimination.

Association with Cornell, either as a student, faculty, or staff member, involves participation in a free community where all people are recognized and rewarded on the basis of individual performance rather than personal convictions, appearance, preferences (including sexual or affectional orientation), or happenstance of birth.

Cornell University's history of diversity and inclusion encourages all students, faculty and staff to support a diverse and inclusive university in which to work, study, teach, research and serve.

No person shall be denied admission to any educational program or activity or be denied employment on the basis of any legally prohibited discrimination involving, but not limited to, such factors as race, color, creed, religion, national or ethnic origin, sex, sexual orientation, age, gender identity or expression, disability, or veteran status. Cornell University is an affirmative action/equal opportunity employer.

Concerns and complaints related to equal opportunity in education and in employment based on aspects of diversity protected under federal, state, and local law, including sexual harassment complaints filed by any member of the Cornell community against an academic or non-academic staff member, as well as complaints arising under Title IX should be directed to the Office of Workforce Diversity, Equity and Life Quality, 160 Day Hall, Ithaca, New York 14853-2081 (Telephone: 607-255-3976, Facsimile 607-255-7481, Telecommunications Device for the Deaf, 607-255-7066, <www.ohr.cornell.edu/contactHR/workLifeDiversity/index.html>).

Cornell University is committed to assisting those persons with disabilities who have special needs related to their educational pursuit or employment. Information on services provided to prospective and current Cornell students with disabilities can be obtained by contacting the Student Disability Services Office, 429 Computing and Information Center, Ithaca, New York 14853-2081 (Telephone: 607-254-4545, Facsimile 607-255-1562, Telecommunications Device for the Deaf, 607-255-7665, www.cit.cornell.edu). Prospective and current employees in need of a workplace accommodation pursuant to the Americans with Disabilities Act or New York state law should contact Workers Compensation and Disability Services, Surge 3 Facility, Ithaca, New York 14853 (Telephone 607-255-3708, Facsimile 607-255-9649, Telecommunications for the Deaf 607-255-7066).

Office of Human Resources
Recruitment and Employment Center
337 Pine Tree Road, Ithaca, New York 14850
(607) 254-8370 TTY: (607) 255-4943

Drug-Free Workplace

The Drug-Free Workplace Act of 1988 requires Cornell, as a federal contractor and grant recipient, to certify that it will provide a drug-free workplace. Accordingly, it is the university's policy to maintain a drug-free workplace. As a condition of employment on such contracts and grants, employees will abide by the terms of this statement and notify Cornell of any criminal drug statute conviction not later than five days after such conviction for a violation occurring in the workplace. The unlawful manufacture, distribution, dispensation, possession, use, or sale in the workplace of a controlled substance, as defined by state or federal law, is prohibited. The university will not condone criminal activity on its property, or on property under its direct control, and will take appropriate personnel action up to and including termination or required participation in a drug abuse assistance or rehabilitation program.

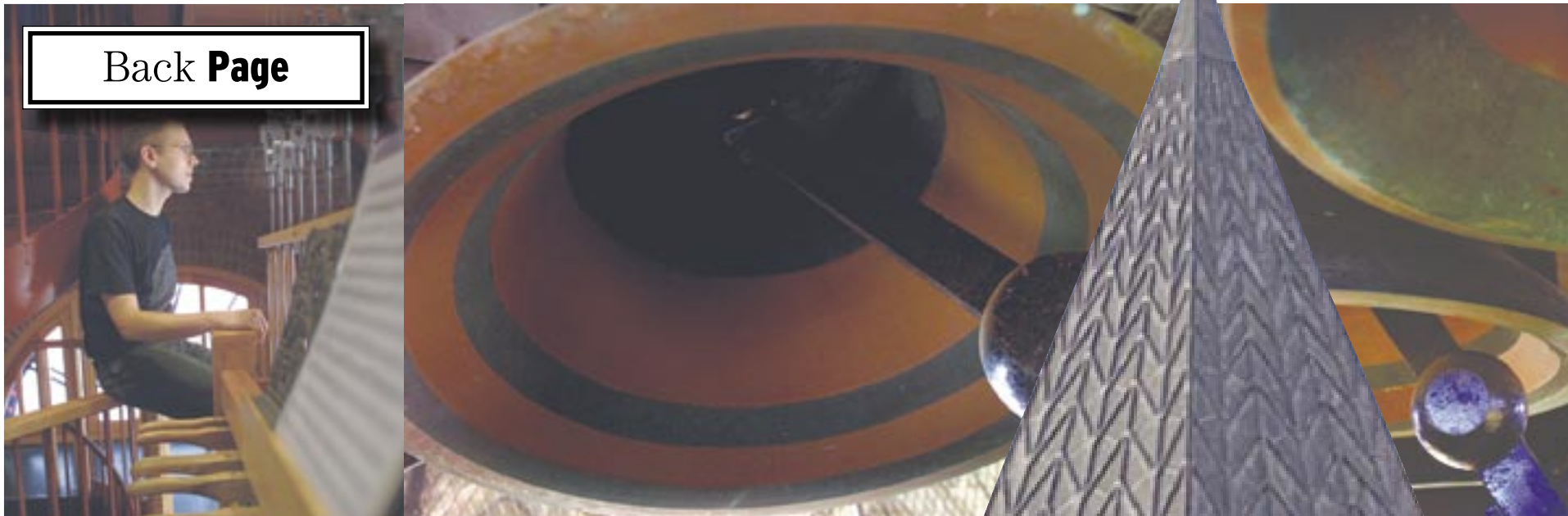
Campus Security Programs Report

In compliance with the Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act, a report containing information concerning campus security programs can be found on-line at <<http://www.cupolice.cornell.edu>>. Included in the report are:

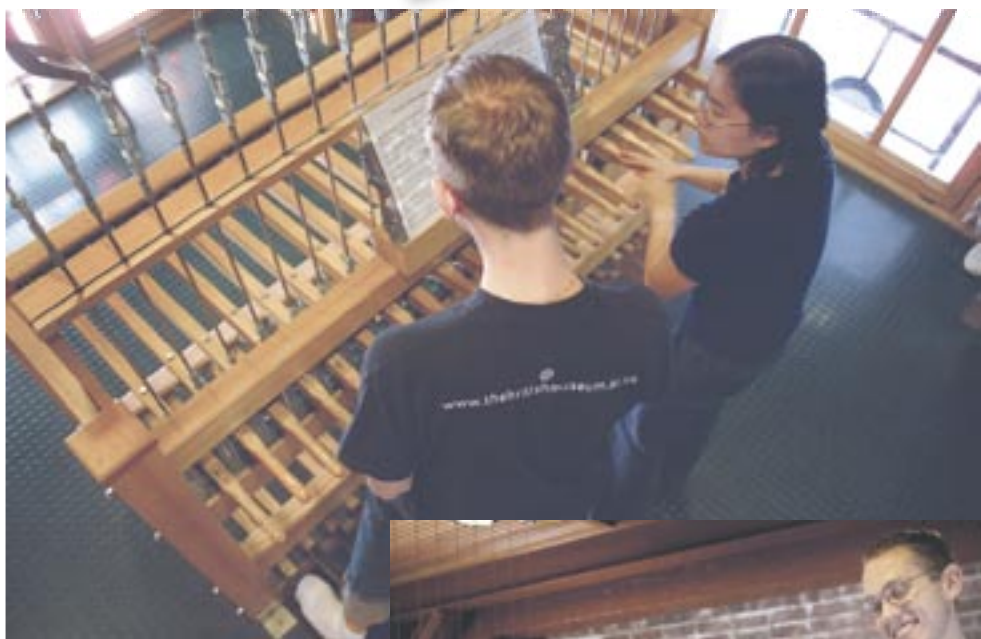
- recommended personal safety practices,
- the authority of the Cornell Police and campus disciplinary procedures,
- a statement advising the campus community how to obtain information provided by New York State about registered sex offenders,
- campus crime statistics for the most recent three-year period, and
- other pertinent safety and crime prevention information.

A printed version of this report (*Campus Watch*) is distributed each fall to students staff and faculty; a copy may be requested from the Cornell Police Crime Prevention Unit, G-2 Barton Hall, Ithaca, NY 14850-1701, or by calling (607) 255-7305 or (607) 255-7404.

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Campus campanologists



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Clockwise from top left: Head Chimesmaster Taras Czebiniak pauses to answer questions following an afternoon concert; close-ups of the bells, housed at the top of McGraw Tower; McGraw Tower, exterior view; fancy footwork is required during many chimes performances; Czebiniak and Chimesmaster Crystal Cun decide on selections for an afternoon concert; Czebiniak and Cun perform a duet during an afternoon concert.



BY DANIEL ALOI

The first thing you hear while making your way up the 161 steps of McGraw Tower during a Cornell Chimes concert – besides the rich tintinnabulation of the bells – is the pumping, stomping racket from above.

The wooden hand levers and foot pedals of the chimes playing stand are a demanding physical workout for the players, known as chimesmasters, performing thrice-daily concerts high up in McGraw.

"People ask me, 'Do you get gym credit?' – no, we do not," says Crystal Cun '07, who played duets with fellow chimesmaster Si-Yi Wang '08 at a recent midday concert. "But I've definitely built some upper-body strength doing this."

A Cornell tradition since 1868, when they rang at the university's opening ceremonies, the chimes (like McGraw Tower itself) are synonymous with Cornell. They herald the start of morning classes, accompany early afternoon strolls on Ho Plaza and signal the end of the day throughout the academic year.

Concerts are a daily public event while classes are in session, at 7:45 a.m., 1:10 p.m. and 6 p.m. Monday through Friday, and at 10:40 a.m., noon and 6 p.m. on Saturday and Sunday. (There will be no chimes concerts during Thanksgiving break, Nov. 23-27.)

During a typical 15-minute concert you can hear anything from Stravinsky's "Firebird Suite" and other classical works to chimesmasters' original compositions and popular melodies. In recent weeks, the bellringers (properly known as campanologists) have serenaded the campus with Glenn Miller's "In the Mood," the theme from "The Addams Family" (a teaser for an Oct. 29 Halloween concert), Dave Brubeck's "Take Five," Dave Matthews Band's "Satellite" and the piano-lesson standby "Chopsticks." All made by human hands and feet.

Chimesmasters – mainly undergraduates and a few alumni – go through a 10-week audition and training period each spring. They constantly add new works to their 2,400-song library, and they also take requests.

"You get a lot of requests, so sight reading comes in handy," Cun says. "People suggest arrangements all the time. One of our chimesmasters put together a 15-minute Madonna concert for a friend, played it the one time and then destroyed the sheet music."

And to make sure you don't hear Bryan Adams' "(Everything I Do) I Do It for You" morning, noon and night, the chimesmasters heed an unofficial "three-week rule."

"We cannot choose to play a piece on our own if it's been played in the last three weeks," says head chimesmaster Taras Czebiniak '06. "We try to keep the campus happy and keep it interesting."

Czebiniak, who has arranged music from his native Ukraine and a version of the Coldplay song "Clocks," says new arrangements are subject to an approval process. Current proposals include Led Zeppelin's "Thank You," Vince Guaraldi's "Linus and Lucy" and songs by the Beatles and Elton John.

"And we just got a request for some Incubus," he says.

For more information on the chimes and chimesmasters, and sound clips of the chimes in action, visit <<http://chimes.cornell.edu>>.