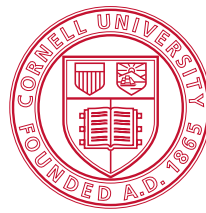


Cornell Chronicle

Volume 36 Number 21 February 10, 2005



Cornell University

PAGE 3 NORTHWEST COMES IN FOR A LANDING

The behind-the-scenes story on how Cornell helped bring a second air carrier to the county's airport.

PAGE 5 ILR INTERNS IN ALBANY

Five undergraduates discuss lessons learned at the New York State Department of Labor.



Faculty experts will hold seminar today on science behind tsunami

Cornell will present a public seminar, "The Sumatra Earthquake and Tsunami: The Science Behind the Headlines," today, Feb. 10, from 4:30 to 6 p.m. in Room B-14 Hollister Hall. The university's School of Civil and Environmental Engineering and the Department of Earth and Atmospheric Sciences are hosting the seminar.

During the seminar, Cornell experts Philip Liu, professor of civil engineering, and Muawia Barazangi and Dan Karig, professors of earth and atmospheric sciences, will make presentations.

Liu recently returned from leading a scientific fact-finding trip to Sri Lanka on the recent tsunami in that region, and he will give details of his investigation. Karig will provide a general overview of the geographical and geological setting of the region.

Barazangi will explain how the tsunami-triggering earthquake – near Sumatra – occurred along a major convergent plate boundary, where the oceanic Indian tectonic plate is subducting beneath the continental southeast Asia plate. He says that as much as 1,200 kilometers of the contact zone be-

tween these two tectonic plates ruptured during the earthquake, with an average slip of 15 to 20 meters. "The occurrence of such mega-thrust, great earthquakes [magnitude 9] is infrequent, approximately once every 200 years," Barazangi says.

While there are well-documented historical earthquakes of large magnitude that have occurred in the region, Barazangi says, "It appears that no such great earthquake occurred in the recent past along the northern continuation of this plate boundary from the Andaman Islands to Assam in northeast India. This is a matter of utmost concern for the future, considering that Bangladesh is located very near this segment of the plate boundary, and that most of this nation, with a population of over 130 million, lies very close to sea level."

Barazangi also will examine the tsunami potential for the eastern Mediterranean. And he will explain how tsunamis have occurred there in the historical past and no doubt will occur again, placing the great city of Alexandria, Egypt, in harm's way. Compounding this problem is a lack of a warning system in the region, he says.

'The Magical Unicorn'



Nicola Kountoupes/University Photography

As part of Hasbrouck Apartments' Annual Family Snow Sculpture Event last month, the Parsons family (David, a Cornell graduate student, wife Chelsea and children Darby and Bethan) created this sculpture, dubbed "The Magical Unicorn." Hasbrouck residents fashioned 14 sculptures in all.

The Cornell News Service has moved

As this issue goes to press, the Cornell News Service is setting up shop in its new home at 312 College Ave. in Collettsville.

News service and *Cornell Chronicle* phone numbers and e-mail addresses will remain the same. Anyone trying to

contact the office this week can also try the Cornell Press Office, located on the second floor of Day Hall, at 255-6074.

Also relocating today to 312 College Ave. is the Web Communications Group; University Photography will be moving there in the coming weeks.

Peking University's arts troupe makes CU stop occasion for tour, socializing

The members of China's Peking University Student Arts Troupe, who recently completed an 11-day tour of the United States, stopped in Ithaca last week and performed a program of dance and music to a packed house at the Schwartz Center for the Performing Arts Feb. 2.

The 32-member troupe, led by Peking University Presi-

dent Xu Zhihong and several other Peking University delegates, spent two days at Cornell, touring campus and lunching and meeting with deans, professors and administrators. The students stayed at the Holland International Living Center on North Campus and spent time with students; Zhihong's delegation, escorted around campus by

Cornell President Jeffrey Lehman, made stops at the A.D. White House, Kroch Library and the Johnson Museum. Zhihong, whose own background is in life sciences, also met with Professors Ray Wu (molecular biology and genetics) and Kathie Hodge (mycology/plant pathology) to talk about their research programs.



Nicola Kountoupes/University Photography

Members of the University of Peking Dance Troupe gather in the Holland International Living Center Feb. 1 to be greeted by Cornell students upon their arrival on campus. From left: Jing Wang, a second-year master's student in Peking University's School of International Studies; Jiajia Tong, a third-year master's student in journalism; Jing Qing, a junior history major; and Ai Lin Dai, an advertising major. In photo at right: Associate Librarian David Corson, left, and President Jeffrey Lehman show President Xu Zhihong of Peking University a copy of Nicholas Copernicus' *De Revolutionibus Orbium Coelestium* (On



Robert Barker/University Photography

Revolutions) in the Kroch Library's Division of Rare and Manuscript Collections vault Feb. 2. Lehman is explaining that this copy of the 1543 book was from the personal collection of Andrew Dickson White, Cornell's first president.

Turner honored for a career of influence



The Ithaca Common Council honored Cornell Africana studies Professor James Turner during Black History Month Feb. 2. Above, left: Turner is visibly moved as the resolution is introduced that honors his 35 years of contributions to Cornell, including his creation of Cornell's Council on African Studies and the Africana Studies and Research Center. Above, right: Council mem-



bers give Turner a standing ovation after unanimously passing the resolution. Turner's formation of an interdisciplinary African studies curriculum influenced the entire field of black studies. This is the second year the council has recognized a local individual of great esteem and leadership to mark Black History Month. Turner spoke briefly after receiving the honor.

Nicola Kountoupes/University Photography

NOTABLE

Edward S. Buckler, an adjunct professor of plant breeding and genetics and a research geneticist with the U.S. Plant, Soil and Nutrition Laboratory of the Agricultural Research Service (ARS), both at Cornell, is the winner of ARS' highest honor for a young scientist—the Herbert L. Rothbart Outstanding Early Career Research Scientist Award. Buckler was recognized for pioneering genetic approaches that allow researchers to identify individual genes controlling complex agronomic traits. The work is expected to greatly facilitate and promote crop improvement and design. Before joining the ARS and Cornell staff in 2003, Buckler worked at ARS' Plant Science Research Unit and as an assistant professor of genetics at North Carolina State University, both in Raleigh, N.C., from 1998 to 2003. He has spent the last five years developing and adapting strategies for fine-mapping complex traits in plants to within a single gene, vastly improving gene-research resolution. These new strategies – which previously had virtually no application in plant genetics – make it possible to exploit the natural variation and diversity that have developed over the history of a crop species. Buckler received his bachelor's degree in biology and archeology (1992) at the University of Virginia and Ph.D. in biological sciences (1997) at the University of Missouri.

Cornell Chronicle

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Published weekly during the academic year, except during university vacations, the *Cornell Chronicle* is distributed free on campus to Cornell University faculty, students and staff by the News Service.

Mail Subscriptions:

\$20 per year. Make checks payable to the *Cornell Chronicle* and send to 312 College Ave., Ithaca, NY 14850. Periodical rates paid at Ithaca, N.Y. POSTMASTER: Send address changes to the *Cornell Chronicle* (ISSN 0747-4628), Cornell University, 312 College Ave., Ithaca, NY 14850.

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Susan Henry continues Asia tour; signs agreement with Los Baños

By Linda McCandless

LOS BAÑOS, PHILIPPINES — Susan A. Henry, the Ronald P. Lynch Dean of Agriculture and Life Sciences (CALs) at Cornell, continued her monthlong trip in Asia by signing a memorandum of understanding with Dr. Augusto C. Sumalde, vice chancellor for research and extension at the University of the Philippines, Los Baños (UPLB), on Feb. 1.

"This agreement will facilitate the exchange of students, faculty and technology and the joint development of new answers to serious challenges in the realms of food security, nutrition and environmental protection," said Henry. "Our renewed partnership with the University of the Philippines is destined to be of great benefit to both of our universities as we seek to advance our missions over the next several years."

It is Henry's second memorandum of understanding of the trip. The first was with the University of Agricultural Sciences, Dharwad, India, on Jan. 11.

While in the Philippines, Henry gave a presentation on "Genomic Approaches to Gene Regulation, Signal Transduction and Metabolism in Yeast." She also visited scientists at the International Rice Institute (IRRI) with whom CALs' faculty have several projects in rice breeding and genomics.

Cornell has longstanding relationships with the UPLB. In the first of two major projects that extended from 1952 to 1972, Cornell helped Filipinos rebuild the College of Agriculture, which was nearly destroyed during World War II. The second project, funded by the Ford Foundation from 1963 to 1972, focused on graduate education of American, Filipino and other Asian students. IRRI was established in Los Baños in 1960, and collaborative educational and research programs between the two institutions developed.

In addition to projects with UPLB, CALs' largest involvement in the Philippines is with the Agricultural Biotechnology Support Project II (ABSP II), an extensive public-private partnership focused on applying agricultural biotechnology to problems that limit food crop production. Projects include developing eggplant with resistance to fruit-and-shoot borers, papaya that is resistant to papaya ring spot virus



Provided

On Feb. 1, College of Agriculture and Life Sciences (CALs) Dean Susan Henry signed a memorandum of understanding with the University of the Philippines-Los Baños (UPLB). Seated in front are, from left: UPLB Vice Chancellor Augusto C. Sumalde and Henry; in back, from left, are Professor Ronnie Coffman, CALs' director of international programs, UPLB College of Agriculture Dean Candida B. Adalla and UPLB Vice Chancellor Ernesto V. Carpio.

and a multiple-virus-resistant tomato. Other CALs activities in the Philippines include the Community-Based Watershed Management Support Project, a partnership led by Leyte State University and the Cornell International Institute for Food, Agriculture, and Development (CIIFAD). Mann Library and CIIFAD also collaborate with the Philippine Department of Agriculture on the Essential Electronic Agricultural Library.

During her trip to Asia, Henry traveled to India, Bangladesh, China, Hong Kong and the Philippines. She explored university collaborations and partnerships, visited alumni, talked with current and prospective students, and celebrated the college's 80 years of accomplishment with partners in Asia.

"Scientists from the College of Agriculture and Life Sciences have taken a leading role in making Cornell a global land-grant university for over 80 years," said Henry. "Using traditional plant breeding techniques and cutting-edge genomics, we have worked with scientists around the world to improve nearly all of the world's important food crops, particularly rice. We have improved yields, boosted nutritional content, improved environmental tolerances and increased resistance to diseases and pests."

Ronnie Coffman, the director of International Programs at CALs and chairman of the plant breeding department, joined Henry on the India and Philippines portion of the trip. In Hong Kong and the Philippines, she also was accompanied by Catheryn O'Brien, director of international affairs.

OBITUARY

Lawrence K. Williams, professor emeritus of organizational behavior at the School of Industrial and Labor Relations, died Feb. 3 at Cayuga Medical Center. He was 74.

Williams joined the ILR School faculty as an assistant professor in 1961 and became a full professor in 1969. He was named an emeritus professor in 1999.

He made important contributions through his research on change processes in organizations. His early work was on the effects of technological change on work group relations. Later, he collaborated with ILR colleague William Foote Whyte in studying cross-cultural influences in change processes. They co-authored a book, *Toward an integrated theory of development: economic and noneconomic variables in rural development* (ILR, 1968), that, in paperback, was used as a training manual in the Peace Corps.

Williams was director of graduate studies of the ILR School for 25 years, in 1969-75 and in 1982-97. He served on the committees of over 250 graduate students, chaired the committees of more than 70 students and, as of last spring, had attended 43 consecutive ILR graduation ceremonies.

He chaired the school's Department of Organizational Behavior for a period and also was one of the founders and directors of GOALS, a foundation to support underrepresented minority graduate students in human resources and industrial relations. He was a Fulbright scholar in Peru in 1967-72.

Williams graduated *cum laude* from Tufts University with a B.S. in psychology in 1952. He received his master's degree in 1954 from the University of Illinois. In 1960, he earned a Ph.D. in social psychology from the University of Michigan. He served in the U.S. Army in 1954-56 and worked as a research psychologist before entering academia.

In Ithaca, he served on the board of directors of Ithaco Inc. and was past commodore of the Ithaca Yacht Club. An avid gardener who knew plants by their Latin names, he became the unofficial cultivator of the ILR School gardens.

Predeceased by his wife, Jean Starliper Williams, and his son, Jeffrey Freeman Williams, he is survived by his partner, Jeanne Mueller, professor emerita of policy analysis and management at Cornell, and by numerous family members.

In lieu of flowers, memorial contributions can be made to Heifer International at <<http://www.heifer.org>>, the Sierra Club at <<http://www.sierraclub.org>> or the charity of one's choice. A memorial service on campus will be announced at a later date.

Publication notice

Due to the relocation of the *Cornell Chronicle*'s office to 312 College Ave., next week's issue will be only four pages. The calendar will appear in full.

Cornell MBA graduate helps county task force lure added air carrier

By Linda Myers

One of the people cheering the news this week that Northwest Airlines will soon be serving Tompkins Regional Airport is Charles Hamilton, a 2004 MBA graduate of Cornell's Johnson Graduate School of Management.

Hamilton himself deserves a few cheers for playing a seminal role in bringing in a second air carrier to the airport, which also is served by U.S. Airways.

U.S. Airways now is successfully emerging from financial difficulties and is continuing to provide the county with air service, but last year, when the airline filed to reorganize and cut back flights to its hub city of Pittsburgh, the need for a second, complementary air carrier – a goal for years – suddenly became much more urgent. It impelled Cornell, along with Ithaca College, both members of the Tompkins County Air Service Task Force, to come up with funding for a special projects position. The 20-member task force, which has representatives from area businesses, colleges and government, approved, and Hamilton was hired for the job soon after he completed his MBA.

"Thanks to Cornell and its general support for a staff person, the air services committee has made great strides, culminating in the agreement reached with Northwest Airlines," said Mike Hall '68, co-chair of the committee and a former Air Force pilot who is now co-owner of PFA Consulting, a local leadership services firm. "Some people in the community like to ask, 'What has Cornell done for us lately?' Here is an example of Cornell's making a huge impact on a communitywide issue."

"There's no lone ranger here," said task force member Richard McDaniel, associate vice president for campus and business services at Cornell, who recruited Hamilton for the job. "The project has pulled people in the county together – everyone has played a part. There's been tremendous collegiality, teamwork and effectiveness. Charles has been in the middle of all that. He's bright, has excellent analytic skills, is results oriented, and he brings a confidence mixed with a certain humility that is particularly effective in working with the community in a big effort like this."

Hamilton and the task force did research and discovered the unhappy fact that 68 percent of the flights booked by area residents were for flights into and out of airports other than Tompkins County's. Part of the reason for what the task force called "leakage" was that the perceived value of flying from Ithaca – the combination of price and convenience of connecting times and plane comfort – was low.

More bad news: The legacies – the six largest U.S. airlines – which had relied on the hub and spoke system to make a profit, were losing business to innovative startups and a diminished market and were cutting back services to small cities like Ithaca.

But there was good news too: The task force's market analysis, led by Hamilton, showed that Ithaca was unique, with a mobile population, including students, faculty and many international residents who often traveled overseas. Even though the trends seemed against it, Hamilton and the task force believed that the right airline might be found that would be interested in providing air service complementing what was already being offered.

A former a Roy H. Park Leadership Service Fellow at the Johnson School, Hamilton consulted an earlier plan by two past Park fellows to bring more air service to the area, which provided useful background information.

Then, through Cornell's remarkable alumni network, Hamilton and the task force linked up with Stuart Oran '71, a former senior executive with United Airlines, who volunteered to be an adviser. In addition to providing strategic direction and senior level industry connections, Oran recommended a firm that specialized in doing independent market analyses for airlines, which helped predict how successful the task force's hoped-for airline routes would be.

A handful of airlines were identified that were likely



Nicola Kountoupes/University Photography

Charles Hamilton, MBA '04, takes in the view from the control tower at the Ithaca Tompkins Regional Airport last month. In a Cornell-funded special projects post supporting Tompkins County Air Service Task Force, Hamilton did the groundwork to help the group bring flights from a second air carrier to the airport.

candidates to pitch, and Hamilton and the task force's negotiating team had serious talks with them. One in particular, Minneapolis-based Northwest, seemed especially attractive because one of its hub cities, Detroit, would provide the gateway to the western United States and the Far East that the task force members were seeking.

Another Cornell alumnus, Bernard Han '86, M.E.E. '87, turned out to be the chief financial officer at Northwest, and he was present in October 2004 when Hamilton and the task force negotiating team presented their case to the airline. It also helped that the airline already had a vested interest in central New York, with service in several other places.

Still, the outcome was anything but certain, so when Northwest came back with a potential offer, "everyone was really pleased," Hamilton said. "The whole effort wouldn't have worked without many people pulling together. Everyone played a part – I'm lucky to have been able to work with so many great people."

Originally from Anchorage, Alaska, Hamilton also has a vested interest in the Tompkins County area. He met his wife, Linnie, at Cornell when they were both undergraduates. He majored in natural resources in the College of Agriculture and Life Sciences, earning a B.S. in 1995, the same year Linnie got her B.A. as a dual major in the College of Arts and Sciences. After graduation they moved to Seattle, where he joined Americorps/Vista, worked for nonprofits, then for Microsoft Corp. and other high-tech firms.

Soon after the pair married in 1997, they conducted a search for the right place to live that was nearly as thorough as the hunt for the right airline to serve Tompkins County. "We decided that Ithaca was an unparalleled place to raise children," Hamilton said. They moved back here in 2002 with the intention of staying after he was accepted at the Johnson School. They now have two daughters, Clio, 4, and Dorothy, 1.

For more details on the Northwest deal, see this Tompkins County Web site: <<http://www.tompkins-co.org>>.

CU applauds effort by the community for Northwest Airlines agreement

Cornell officials have applauded the collaborative community effort that is bringing Northwest Airlines service to Ithaca's Tompkins Regional Airport. The finalization of the agreement to bring two new flights a day to the airport was announced Feb. 7. The Ithaca-Detroit service will start on May 2, and travelers can now book tickets.

"Cornell University is excited by this new commuter arrangement with Northwest Airlines, which will expand travel options for the region," said Tommy Bruce, vice president for communications and media relations. "This is a boon to the community because it can lead to further expansion of travel options in the future. We are proud to have been part of a local partnership of academic institutions and businesses providing revenue guarantees to ensure the success of this endeavor. In addition, Cornell staff members have been actively involved in the coordination of efforts and the negotiations with Northwest Airlines since this process began."

Added Richard McDaniel, Cornell associate vice president for campus and business service, who is a longtime member of the Tompkins County Air Service Task Force: "I have never seen such a fine collaborative effort. Each partner has contributed what they could. This has been a distinctive and positive experience."

Siguaw named dean of Cornell-Nanyang hospitality management program

Judy Siguaw, a chaired professor at Cornell's School of Hotel Administration, has just been named founding dean of the Cornell-Nanyang Institute of Hospitality Management (CNI) in Singapore.



Siguaw

The CNI program came into being last November when Cornell President Jeffrey S. Lehman and the president of Nanyang Technological University (NTU), Su Guanng, met at Cornell's Statler Hotel to sign the historic agreement creating it.

In her new position, Siguaw will direct the CNI's 12-month Master of Management in Hospitality program. The joint program, to be housed at NTU in Singapore, is the first graduate program

in hospitality management in Asia and is much needed. The demand for managerial talent has intensified as the region experiences huge growth in travel, tourism and international hotel properties, driven by a more-affluent middle class and increased trade since China's entry into the World Trade Organization.

"I look forward to the opportunities and challenges this new venture will present," said Siguaw, who will move to Singapore in March. "CNI represents an exciting opportunity to leverage the brand names of two prestigious institutions, while creating a renowned hospitality program for students seeking expertise in Asian markets."

"Judy Siguaw is an ideal choice to lead this historic new venture," said David W. Butler, dean of the Hotel School. "We are confident that under Judy's lead, CNI will quickly emerge as the pacesetter in produc-

ing the next generation of leaders for the hospitality industry in Asia."

Said Hong Hai, dean of NTU's Nanyang Business School, "Judy Siguaw's appointment is an important step forward for CNI, which aims to set the standard for hospitality management education in this part of the world."

Siguaw, a noted scholar in sales and marketing, joined the Hotel School faculty in 1997 and is now the J. Thomas Clark Professor of Entrepreneurship and Personal Enterprise. Her findings on such subjects as hoteliers competing for room sales with Internet-based third parties have been cited in *The New York Times* as well as in leading hospitality publications. She has published in the *Journal of Marketing*, *Journal of Marketing Research*, *Journal of Travel Research* and the *Cornell Hotel and Restaurant Administration Quarterly*.

She is a co-author of *Hospitality Sales: Selling Smarter* (Thomson Delmar Learning, 2003); *Introducing LISREL: A Guide for the Uninitiated* (Sage Publications, 2000); and *American Lodging Excellence: The Key to the Best Practices in the U.S. Lodging Industry* (Educational Institute of the American Hotel & Lodging Association, 1999). She holds a D.B.A. and an MBA from Louisiana Tech University and a B.B.A. from Lamar University.

The first joint degree program both for Cornell's Hotel School and Nanyang Technological University, Cornell-Nanyang Institute of Hospitality Management is expected to enroll up to 50 students starting in July 2006. They will divide their time between the Singapore and Ithaca campuses. The program dovetails with Lehman's vision for Cornell as a transnational university.

Key cellular enzyme plays key role in gene regulation, CU team finds

By Ernie Mundell, Weill Cornell Medical College

A cellular enzyme known to biologists for years just got a startling makeover.

The discovery by a researcher with dual appointments at Cornell and Weill Cornell Medical College in New York City that poly (ADP-ribose) polymerase-1 (PARP-1) plays a pivotal role in gene transcription could open doors to new therapies for cancer and neurological disease. There are even hints at connections between the foods we eat and gene expression within our cells.

"What's catching people's attention is that we have actually characterized a whole new activity for this long-studied protein," said W. Lee Kraus, associate professor



Kraus

of molecular biology and genetics at Cornell and adjunct associate professor of pharmacology at Weill Cornell.

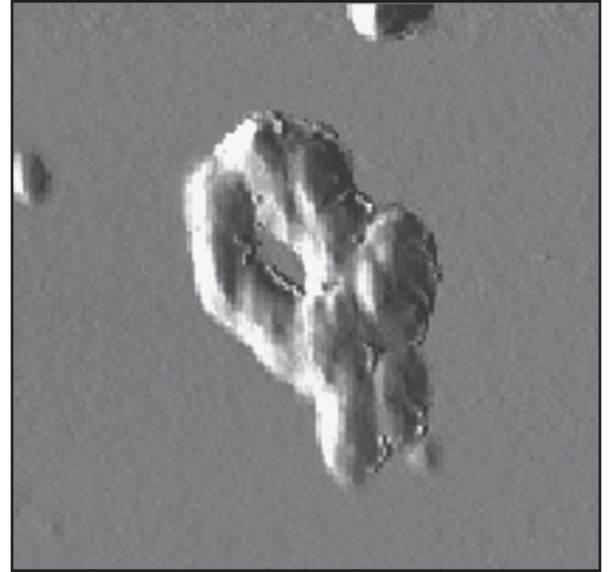
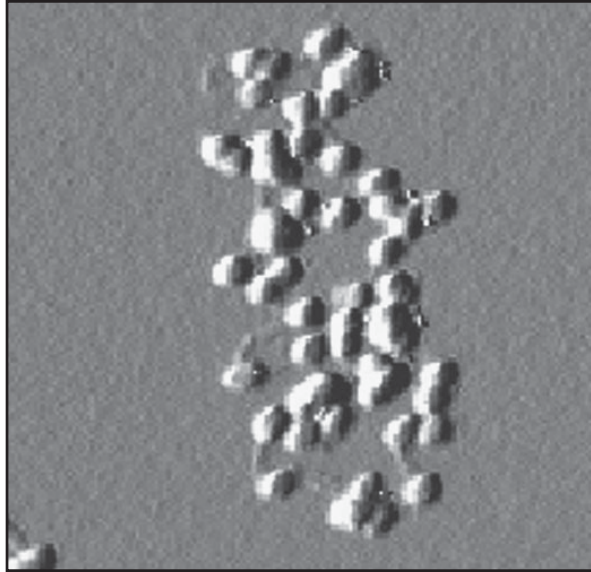
"It's a very, very exciting story," added Anthony Sauve, an assistant professor of pharmacology at Weill Cornell, who is developing drugs that either activate or inhibit PARP-1.

"Dr. Kraus's work is really important," he said, "because he found that PARP-1 is regulating gene transcription – converting DNA from an active to a silent state. So the real question is, what genes are affected? And for those genes that are either up-regulated in disease or down-regulated, is there a way we can target PARP-1 to turn the genes on or off?"

The findings were published in the Dec. 17, 2004, issue of *Cell*.

PARP-1 is the most abundantly expressed member of a family of proteins long known to be involved in the metabolism of nicotinamide adenine dinucleotide (NAD+), a cellular co-factor involved in both energy use and signaling within cells. According to Kraus, the enzyme also has been implicated in processes surrounding cellular stress and DNA damage.

In their experiments in both human and fly cells, Kraus and his colleagues discovered that PARP-1 also influences gene transcription within the cell nucleus. "We found that, on its own, PARP-1 binds very specifically to the chromatin structures that surround genes, called nucleosomes. When PARP-1 binds to chromatin, it actually tightens those structures – closing up that architecture and making it much more difficult for genes to become expressed," he said.



David Wacker

Atomic force microscopy (AFM) images of PARP-1-induced chromatin compaction. The image on the left shows a single molecule of chromatin in the absence of PARP-1. Individual nucleosomes (small white spheres) are clearly visible. The image on the right shows a single molecule of chromatin after the addition of PARP-1. The compact structure of the chromatin is evident. These images were produced by David Wacker, a biophysics graduate student in the Kraus lab, using an AFM instrument at the Cornell Nanobiotechnology Center in Duffield Hall.

But another natural mechanism also can release genes from PARP-1's repressive grip, the Cornell team found. When the enzyme binds with NAD+, this chemical partnership causes PARP-1 to convert the NAD+ into long chain polymers on its surface. Those polymers cause it to lose its connection to a gene's chromatin shell.

"PARP-1 then dissociates from chromatin, the structure opens up – and genes are free to be expressed again," Kraus explained.

The implications of these discoveries could be profound, he said. By manipulating the NAD+/PARP-1 mechanism, scientists might find new pharmacological ways of switching genes on and off at will.

"Right now, no one is certain exactly which genes are going to be regulated by this system," Sauve said. "That's where the pharmacological approaches are going to be useful." His lab at Weill Cornell is attempting to identify candidate genes, as well as drugs that might intervene in the PARP-1 system.

It could take years before this type of gene therapy reaches patients. But studies are suggesting PARP-1 could play a role in a wide variety of conditions.

Because cancer is essentially driven by genetic abnormalities, it would seem to be an obvious research goal. But Sauve also pointed to recent animal studies that found inhibition of PARP-1 activity is associated with neurological and learning impairment. PARP-1 activity also has been implicated in immune responses, diabetes and aging.

There is the intriguing possibility that the NAD+/PARP-1 system might connect daily diet to genetic activity within cells. "For example, NAD+ is actually synthesized in a special biological pathway that uses niacin – vitamin B3. It's not been proven yet, but it suggests that dietary effects could have a greater impact on gene expression than we even knew before," Kraus said. "That's another surprise PARP-1 may one day have in store."

Co-authors on the *Cell* study are all from Cornell, including John T. Lis, the McClintock Professor of Molecular Biology and Genetics, and postdoctoral researchers Mi Young Kim (lead author), Nicolas Gevry and Steven Mauro.

Kraus' work is funded by grants from both the National Institutes of Health and the American Cancer Society.

Cornell to host 'Functional Foods, Bioactive Compounds and Human Health' symposium

To review the latest scientific information on how certain foods may have health benefits beyond providing nutrients, Cornell's Institute of Food Science will host the symposium "Functional Foods, Bioactive Compounds and Human Health," May 22-24 on campus.

"In recent years, there has been a growing interest in so-called 'functional foods' for their bioactive compounds, which are responsible for beneficial functions and in understanding their mechanisms of action and potential for improving health," said Rui Hai Liu, associate professor of food science at Cornell and chair of the symposium committee. "This symposium brings together 13 world-renowned experts in functional foods, nutrition and human health and provides a forum for the exchange of research results, ideas and opinions."

Intended for scientists, nutritionists, health practitioners and members of the media who cover health and nutrition, the

conference will cover: the implications of dietary patterns and bioactive compounds, such as natural antioxidants, on chronic disease; whole grain foods and body weight; the beneficial effects of berries on brain aging; vegetables and prostate cancer risk; the beneficial heart effects of grapes; the health benefits of various kinds of fatty acids, the biofortification of foods and the evolution of the dietary guidelines.

The Institute of Food Science was formed in 1970 to coordinate food-related activities at Cornell. Through its teaching, research and outreach programs, the faculty educate and train students, conduct basic and applied research, and offer technical information and assistance to food processors and entrepreneurs.

Participants can register online at <<http://www.foodscience.cornell.edu>>. For registration information and questions, contact Linda Schmidt at 255-7900 or by e-mail at <lms10@cornell.edu>.

BRIEF

■ **Fire sprinklers to be installed in Kroch this semester:** Fire sprinklers will be installed in Kroch Library beginning this month. Contractors will begin their work on or about Feb. 21, with an expected completion date currently set for July 8. The library will remain open while most of this work is happening, but it will be necessary to close certain areas of the building for short periods of time.

Note: there will be no staff or patron access to the B1 stacks or the Rare and Manuscript 2B stacks (vault) from March 18 at 5 p.m. until March 28 at 7 a.m.

Patrons are asked to plan ahead, since access to material in those areas will not be possible. This means getting any books, serials, or newspapers from the stacks that you think you may need over spring break before 5 p.m. March 18.

One additional closure, one of the L1 Asia stacks, is scheduled to occur from May 20 until June 9.

Fred Gray talk, visit rescheduled

Renowned civil rights attorney Fred Gray will deliver two public talks and participate in a book signing at Cornell on Feb. 20 and 21. Gray's original visit, scheduled for January, was cancelled due to bad weather that affected airports in the southeastern United States.

Gray, who represented Rosa Parks and Martin Luther King and the Tuskegee Syphilis Study participants, also will give a talk at the Beverly J. Martin School in downtown Ithaca. The following events are free and open to the public:



Gray

- "Learning to Live With Life's Ups and Downs," Sunday, Feb. 20, at 11 a.m. in Sage Chapel;

- "Civil Rights: Past, Present and Future," Sunday, Feb. 20, 2 p.m. to 4 p.m. in the Beverly J. Martin School gymnasium, reception to follow;

- "Why Do You Want to Be a Lawyer?" Monday, Feb. 21, at 12:30 p.m. in Anabel Taylor Auditorium; and

- A book signing, where Gray will sign his two books, *The Tuskegee Syphilis Study* (1995) and *Bus Ride to Justice* (1998), on Monday, Feb. 21, from 11 a.m. to noon at the Cornell Campus Store.

For more information about Gray and a list of his most notable cases, visit <<http://www.fredgray.net/index.html>>.

Black Gospel Festival is Feb. 18-20

Gospel artists Kenny Curry and NU Spirit headline the 29th Annual Festival of Black Gospel (FBG) at Cornell Friday, Feb. 18, at 7:30 p.m. in Anabel Taylor Auditorium. Tickets are \$5 general admission; \$4 for students and \$2 for children ages 6 to 12. Tickets are available at the Cornell ticket office, Clinton House ticket office, 273-4497, and also at the door.

The festival is the centerpiece of Cornell's Black History Month events and includes a mass choir rehearsal that is free and open to the public on Saturday, Feb. 19, from 10 a.m. to 3 p.m. in the

Robert Purcell Community Center's Multipurpose Room. The mass choir will be led by guest director Jeremiah Worrell of the Greater Mount Calvary Holy Church in Washington, D.C. Rehearsal includes a continental breakfast.

Rev. Tejado Hanchell, also of the Greater Mount Calvary Holy Church, will be the guest speaker during the mass choir performance Sunday, Feb. 20, at 4 p.m. in the Memorial Room of Willard Straight Hall. Sunday's event is free and open to the public.

For more information, contact the FBG office at 255-0626.

ILR students share their state labor department work experience

By Courtney Potts '06

For most college students, intersession provides a much-needed break from the rigors of academic life. But for five students in Cornell's School of Industrial and Labor Relations (ILR) who are planning careers in human resource management or labor policy, this year's winter break offered valuable work experience in the form of an internship at one of several New York State Department of Labor (DOL) offices or One Stop Job Centers across the state. On Feb. 1, this year's interns – Julia Donahue '07, Laura Skladzinski '07, Kathryn Pollack '07, Deniz Ibrahim '07 and John Nolan '06 – met with ILR faculty members and employees from the DOL to share their internship experiences.

The internship, which is part of the Winter Intersession Program (WISP) administered by ILR's Office of Career Services, is currently in its second year. It is co-sponsored by Harold Oaklander '52, founder of the Alliance for the Prevention of Unemployment (APU), and Roger W. Gerby, chief of research and evaluation for the New York DOL. The main goals of the program are to give students real-world work experience and to expose them to a variety of issues related to unemployment.

Oaklander, who also is a professor emeritus of management at Pace University, said he has been "deeply interested" in these issues for more than 30 years. During that time, he has been repeatedly disappointed with the lack of new solutions that have been proposed by government officials and "so-called experts," he said.

"It came to me," he explained, "that if one couldn't depend on those in power to creatively approach the prevention of unemployment, ... then I should consider sensitizing the best of our university students to the issue." He hopes that if students are presented with the problem early on in their careers, their open minds and interest in social activism will inspire them to address it in new and innovative ways.

And it seems as though Oaklander's plan is working. The impact that working one-on-one with the unemployed had created was unmistakable at last week's presentation.

"The experiences I had with the DOL ... made the issue of unemployment real to me," said Pollack, who worked at an office in White Plains. "Assisting people who were recently unemployed and seeing the many resources that were available to them were things I probably never would have experienced [without this internship]."

Each intern spent two or three weeks assisting with the day-to-day tasks of a DOL office near their hometowns. Some of the interns' responsibilities included helping job applicants write resumés, sitting in on various training sessions and, in at least one case, organizing a job fair. Some interns also completed small research projects. For ex-



Deniz Ibrahim, ILR '07, speaks during a Feb. 1 presentation on campus about his internship with the New York State Department of Labor. He was one of five ILR students interested in careers in labor policy and human resources who spent their winter break working with the unemployed in state labor offices and job centers and learning about issues that affect them. The internships were administered by ILR's Office of Career Services.

Frank DiMeo/University Photography

ample, Donahue's presentation, titled "Reducing Poverty in America: The Impact of Unionism in Low-Skill Occupations," looked at the role played by unions in improving salary and benefits for hotel housekeeping staff – making such jobs more attractive than those in the non-unionized childcare industry. In exchange for their time, interns received a small stipend and an invaluable experience.

Skladzinski, who was assigned to a One Stop Job Center in the Albany area, felt that her internship had given her a great deal of insight into employment issues. "It's hard to make judgments about how the unemployment system should work until you've actually experienced firsthand what happens to those who are on unemployment," she said. "The internship definitely helped me to be more informed."

In the future, Oaklander and Gerby hope to expand the program, opening it up to more students – both in other

colleges at Cornell and at other universities nationwide – and finding positions for more students each year. For Gerby, it's a great way to expose potential employees to an often-overlooked career opportunity in the public sector. "Recruiting in state government is difficult at best," he explained, but exposing students to the inner workings of the DOL seems to have an effect. Roughly half his current employees were once student interns.

Students who are interested in applying to the program next year will be happy to know that it comes highly recommended. "I would definitely recommend this internship to other students, especially ILR students," said Pollack. "It was very rewarding to see an actual real-life application of all the theory."

Courtney Potts is a Cornell News Service writer intern.

Arecibo's sensitive new eye begins massive sky survey for new galaxies

By David Brand

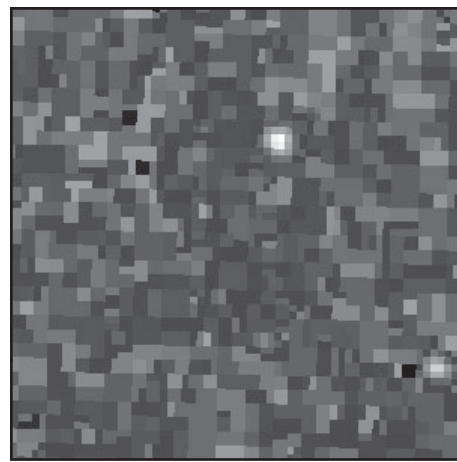
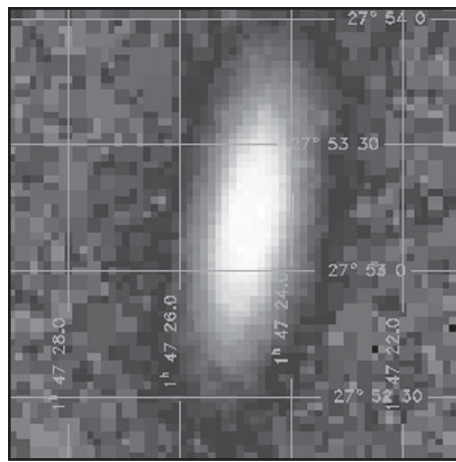
ARECIBO, PUERTO RICO — Fitted with its new compound eye on the heavens, the National Science Foundation's (NSF) Arecibo Observatory telescope, the world's largest and most sensitive single-dish radio telescope, early this month began a years-long survey of distant galaxies, one that perhaps will discover elusive "dark galaxies" – galaxies that are devoid of stars.

Astronomers at Arecibo Observatory hope the new sky survey will result in a comprehensive census of galaxies out to a distance of 800 million light years from our galaxy, the Milky Way, in nearly one-sixth of the sky – or some 7,000 square degrees.

The search, conducted by an international team of students and scholars, is the first of a series of large-scale Arecibo surveys that will take advantage of the telescope's new instrument, installed last year, called ALFA (for Arecibo L-Band Feed Array). The device is essentially a seven-pixel camera with unprecedented sensitivity for making radio pictures of the sky, allowing astronomers to collect data about seven times faster than at present. The project has been dubbed ALFALFA, for Arecibo Legacy Fast Alfa Survey.

"Fast" does not refer to the time necessary to carry out the survey, which will require thousands of hours of telescope time and a few years to complete, but rather to the observing technique, which consists of fast sweeps of broad swaths of sky.

The survey is supported by the National Astronomy and Ionosphere Center (NAIC) at Cornell, which manages the Arecibo Observatory for the NSF. In addition, support is being provided through research grants from the NSF and the Brinson Foundation to the project's leader, Cornell Professor of



Palomar Observatory Sky Survey

The ALFALFA sky survey will be detecting hydrogen and, thus, be selecting gas-rich galaxies. These can be normal galaxies, where much of the mass has been converted into stars, or galaxies that have converted very little of their gas into stars. The reason for the difference has to do with the nature of the density fluctuations in the early universe from which galaxies evolved. Some systems evolved slowly and could, in some cases, still be collapsing, or forming. But others might not even have started to form stars, 13 billion years after the Big Bang. It is these galactic systems, in particular, that the ALFALFA survey hopes to detect and count. These two optical images illustrate the difference between optically selected and hydrogen-selected images. The normal galaxy is apparent in the image on the left, but there is very little to look at in the image on the right, other than the bright spot in the foreground. But a careful look shows a slight enhancement of the background light towards the center of the image. A hydrogen-selected image would combine details in both images.

Astronomy Riccardo Giovanelli, and to Martha Haynes, a Goldwin Smith Professor of Astronomy at Cornell.

Giovanelli explained that ALFA operates at radio frequencies near 1420 MegaHertz (MHz), a frequency range that includes a spectral line emitted by neutral atomic hydrogen, the most abundant element in the universe. ALFA detects this signature of hydrogen, which hopefully signals the presence of an undiscovered galaxy. Nearly every previous sky survey has been of optically, infrared- or X-ray-

lected galaxies.

ALFALFA will be six times more sensitive – meaning that it will go much deeper in distance – than the only previous hydrogen wide-field survey carried out in Australia in the late 1990s. "What has made ALFALFA possible is the completion of the Gregorian upgrade to the Arecibo telescope in 1997, which allowed feed arrays to be placed in the telescope focal plane and expanded the instantaneous frequency coverage of the telescope," he said.

Besides providing a comprehensive cen-

sus of the gaseous content of the near universe, ALFALFA will explore galaxies in groups and clusters and investigate the efficiency by which galaxies convert gas into stars. What particularly intrigues astronomers is that ALFALFA could determine whether gas-rich systems of low mass that have not been able to convert their cosmic material into stars – the so-called dark galaxies – actually exist. Because these galaxies, being starless, are optically inert, it is hoped that they can be detected by their hydrogen signature.

The galaxy survey is feasible now because ALFA lets the telescope see seven spots – seven pixels – on the sky at once, greatly reducing the time needed to make all-sky surveys. The Australian-built detector, on the 305-meter (1,000-foot) diameter Arecibo radio telescope, provides the imaging speed and sensitivity that astronomers will need for their search.

Robert Brown, the NAIC's director, said that a significant fraction of the Arecibo telescope time in the next few years will be devoted to extensive surveys with the ALFA array, such as ALFALFA. The new survey consortium consists of 38 scientists from 10 countries, including the United States, France, the United Kingdom, Italy, Spain, Israel, Argentina, Chile, Russia and the Ukraine.

Several of the members are graduate students who will base their Ph.D. theses on ALFALFA data. Among them are Cornell graduate students Brian Kent, Sabrina Stierwalt and Amelie Saintonge.

Said Giovanelli: "My one and only paper published in an engineering journal proposed the construction of a feed array at the upgraded Arecibo telescope to carry out hydrogen line surveys of the sky. It took 15 years of waiting, but I am finally going to do the experiment."

Charting CU's progress five years after diversity statement's release

By Lynette Chappell-Williams and Robert L. Harris Jr.

In 1999, former Dean of Faculty Robert Cooke convened members of the Cornell community to begin a dialogue on how to make Cornell more welcoming for individuals of diverse backgrounds. In addition, a diversity education and training session was convened by Mary George Opperman, vice president of human resources, and LeNorman Strong, assistant vice president of student academic services, in July 1999 that included students, staff and faculty. As a result of what was learned from the meetings, Cooke convened the Campus Climate Committee, whose mission was to enable members of the Cornell community to participate personally in a campuswide effort to affirm the value and importance of diversity. The Campus Climate Committee subsequently developed an institutional statement, "Open Doors, Open Hearts and Open Minds: Cornell's Statement on Diversity and Inclusiveness," that was shared with the university community in January 2000. Last month marked the five-year anniversary of the university's statement on diversity and inclusiveness, as evidenced below.

Since the time that the statement was announced, the university has made great progress in addressing diversity and inclusiveness:

- Two offices were developed to lead the university's efforts in addressing diversity and inclusiveness: the Office of Workforce Diversity, Equity and Life Quality, established in January 2000, and the Office of the Vice Provost for Diversity and Faculty Development, established in February 2000.

- Shortly after announcing the statement, a competition was launched to develop a logo for the statement. The selected logo was developed by Andres Arroyo, administrative assistant in the Family Life Development Center, College of Human Ecology.

- To assist in addressing actions that affected the university's commitment to diversity and inclusiveness, the Bias Response Program was implemented in November 2000.

- In December 2000, Administration/Fa-



Nicola Kountoupes/University Photography

The University Diversity Council was created in 2001 to continue the mission of building a Cornell community where people's attitudes and actions promote mutual respect and civility.

DIVERSITY DIGEST

cilities and Finance and the Office of Human Resources began convening the Skilled Trades Diversity Consortium, to have annual dialogues on the progress of increasing minorities and women represented within the skilled trades at Cornell and in the community.

- To carry on the work of the Campus Climate Committee, in November 2001, Provost Bidy Martin appointed a 17-member University Diversity Council whose mission is to help build a Cornell community where the attitudes and actions of people promote mutual respect and civility, so that all can fully participate in the education, employment and social opportunities of the university.

- In 2001 the university established a staff recruiter position with responsibility for diversity recruiting that was filled in September 2003.

- In May 2002, the university implemented a disability accommodation process for faculty, academic staff, and non-academic staff, to further support the employment of individuals with disabilities.

- To assist colleges and administrative units with addressing diversity and inclusiveness, guidelines were developed to assist in drafting comprehensive diversity plans. Since that time, 11 colleges and administrative units have begun work on creating diversity initiatives.

- In 2002, the vice provost for undergraduate education, in conjunction with the Dean of Students Office and the Cornell Interactive Theatre Ensemble, launched the One Vision, Many Voices program – a diversity orientation program for new and transfer students.

- In April 2002, the staff performance dialogue tool that is used to evaluate the performance of all staff was revised to include a dimension on inclusiveness.

- Several administrative departments and

colleges created positions with responsibility for diversity within their units, such as: the College of Engineering, which established an associate dean of diversity and a director of the Engineering Diversity Program; Student and Academic Services/Campus Life and Community Development; Johnson Graduate Business School; and Planning, Design and Construction within Administration, Facilities and Finance.

- In October 2002, the University Diversity Council began this "Diversity Digest" column in the *Cornell Chronicle* and the "Diversity Council Newsletter" to provide updates on the university initiatives related to diversity and inclusiveness.

- The Safe Place Program was implemented in March 2003 to create an environment that is more inclusive and supportive of lesbian, gay, bisexual, transgender and queer (LGBTQ) members, to affirm LGBTQ identities, allow for open discussion and make resources more available to the campus community.

The university is committed to continuing its progress in addressing diversity and inclusiveness. As President Jeffrey Lehman stated in his October 2004 address to the university:

"Once at Cornell, all members of our community should feel welcomed as equal members. And no matter what their personal background might be, they should also be pressed to take advantage of all aspects of our community's diversity, encouraged to reach out across boundaries to meet one another, challenged to see the world through the eyes of others."

The Diversity Digest is one of the services provided by the university's Diversity Council. For information about the council, this column, the council's newsletter or about diversity initiatives at Cornell, contact co-chairs Robert L. Harris Jr., vice provost for diversity and faculty development, at 255-5358 or <rlh10@cornell.edu>, or Lynette Chappell-Williams, director of the Office of Workforce Diversity, Equity and Life Quality, at 255-3976 or <lc75@cornell.edu>.

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office, 255-3430, and the ticket center at Clinton House, 273-4497.

Cornell Folk Song Club

Jay Ungar and Molly Mason will perform Feb. 12 at 8 p.m. in Barnes Hall. Tickets are \$15 in advance, \$17 at the door. For information, see <<http://www.cornellfolksong.org>>.

'Bound for Glory'

Feb. 13: Seamus Kennedy will perform. "Bound for Glory" is broadcast Sundays on WVBR-FM, 93.5 and 105.5, from 8 to 11 p.m. from the Café at Anabel Taylor Hall. Admission is free.

religion

Sage Chapel

Rev. Dr. Thomas Poole, associate vice provost for educational equity at Penn State University, will speak at the service Feb. 13 at 11 a.m.

African-American

Sundays, 5:30 p.m., Anabel Taylor Chapel.

Baha'i Faith

Weekly prayer circle open to all faiths, sponsored by the Baha'i Club, held Sundays at 11 a.m. at 630 Stewart Ave. All are welcome.

Baptist Campus Ministry

Weekly Bible study meets Wednesdays at 8 p.m. in 314 Anabel Taylor Hall. For information contact Keith Bowman at <kcb29@cornell.edu> or 277-2283.

Singalong



Courtesy of Cornell Cinema

Cornell Cinema presents the "Sing-a-Long Wizard of Oz" Feb. 12 at 2 and 7:15 p.m. in Willard Straight Theatre. This print of the beloved 1939 classic has lyrics added at the bottom of the screen so everyone can sing along with the film's fabulous songs. Richard Driscoll, executive director of Ithaca's Community Arts Partnership, will play the "man behind the curtain" and lead the audience in some vocal exercises and explain how to use the props in the complimentary goodie bags. He'll also judge a costume contests (one for kids, one for adults). Tickets, which are on sale now in 104 Willard Straight Hall, are \$15 general; \$12 students and seniors; and \$10 kids 12 and under. Call 255-3522 for more information or to reserve your tickets.

Buddhist

- Meditations: Monday, Wednesday and Thursday, 12:15-1 p.m., Founders Room, Anabel Taylor Hall.

- Zen Meditation practice is Mondays and Wednesdays, 5:30-6:30 p.m., Founders Room, ATH. Instruction is required before attending. For information, call Anne Marie at 273-4906.

Campus Crusade for Christ

Weekly large group meets Fridays at 7:30 p.m. in B14 Hollister Hall.

Catholic

Sunday Mass schedule: 10 a.m. and 5:15 p.m., Anabel Taylor Hall Auditorium; 9:30 p.m., Sage Chapel.

Daily Masses: Mondays, Wednesdays and Fridays at 12:20 p.m., ATH Chapel; Tuesdays and Thursdays at 5:15 p.m., ATH Chapel.

Christian Science

Testimony meetings: Thursday, 7:30 p.m., Founders Room, Anabel Taylor Hall. Church services: Sundays, 10:30 a.m., and Wednesdays, 7:30 p.m., First Church of Christ Scientist, 101 University Ave., Ithaca.

Cornell Christian Fellowship

The InterVarsity chapter meets Fridays at 7:30 p.m. in Hollis E. Cornell Auditorium, Goldwin Smith Hall. For information visit the Web site at <<http://www.ccfiv.org>>.

Episcopal (Anglican)

Wednesdays, worship and Eucharist, 5 p.m., Anabel Taylor Chapel. Sundays, worship and Eucharist, 9:30 a.m., ATH Chapel. For more information, call 255-4219 or e-mail <eccu@cornell.edu>.

Friends (Quakers)

Meeting for worship, Sunday, 11 a.m., Edwards Room, Anabel Taylor Hall. For information visit <<http://www.quaker.org/ithaca/>> or call 273-5421.

Grace Christian Fellowship

The InterVarsity chapter meets Fridays at 7 p.m., B11 Kimball Hall. For more information visit the Web site at <<http://www.curw.cornell.edu/gcf>>.

Hindu

Weekly religious service is Saturday at 4 p.m. in the Edwards Room, Anabel Taylor Hall, followed by a Gita reading at 5 p.m.

Jewish

- Conservative: Fridays, 6:15 p.m., Founders Room, Anabel Taylor Hall; Saturdays, 9:45 a.m.,

Islam Awareness Week

Lectures:

- "Public Opinion About Civil Liberties and Other Freedoms," James Shanahan, communication, Feb. 10, 12:15 p.m., G08 Uris Hall.

- "An American Woman's Jihad," Fidelma O'Leary, Feb. 11, 7 p.m., Hollis E. Cornell Auditorium, Goldwin Smith Hall. Her talk will be preceded by a showing of "Inside Mecca."

- "Why Do Muslim Women Need to Reinterpret the Qur'an?" Nimat Hafez Barazangi, Feb. 17, 4:30 p.m., 127 Rockefeller Hall.

- Professor Susan Buck-Morss, director of visual studies, will give a talk Feb. 17 at 6 p.m. Location TBA.

Films:

- "Osama," viewing and discussion, Feb. 15, 8 p.m., Noyes Community Center.

- "Control Room," Feb. 18 at a time and location to be announced.

Workshops:

- African Qur'anic Board Workshop, Feb. 13, noon, Johnson Museum. \$3. Limited to 15 people; e-mail <mecae-board@cornell.edu> to reserve your spot.

- Islamic Tile Painting, Feb. 19, meet at 2 p.m. in the Johnson Museum. Limited to 20 people. E-mail <llf5@cornell.edu> to reserve a spot.

Founders Room, ATH.

- Reform: Fridays, 6:15 p.m., Chapel, Anabel Taylor Hall.

- Orthodox: Friday, Center for Jewish Living, call 272-5810 for weekly times; Saturday, 9:15 a.m., Edwards Room, ATH.

Korean Church

Sundays, 11 a.m., One World Room (in English), and 1 p.m., chapel (in Korean), Anabel Taylor Hall. Call 255-2250 for more information.

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Latter-Day Saints (Mormon)

Cornell student branch: Sundays at 9 a.m. Call 257-7313 for information.

Lutheran

Campus ministry at St. Luke Church, 109 Oak Ave., in Collegetown, Sundays, 10:45 a.m. and 5 p.m. Bible study Tuesday, 7 p.m. For more information call 273-6811 or e-mail <rlb8@cornell.edu>.

Muslim

Daily congregational prayer at 218 Anabel Taylor Hall.

Weekly Juma'a Prayer, Friday, 1:20 p.m., One World Room, Anabel Taylor Hall.

Weekly coffee hour Tuesdays, 4:30 p.m., Tower Café, Uris Library. For more information visit the Web site: <http://www.meca-online.org/>.

Pagan

For information about United Pagan Ministries, call Cornell United Religious Work at 255-4214.

Protestant Cooperative Ministry

Sunday service at 11 a.m. in Anabel Taylor Chapel.

SEMINARS

African Development, Institute for

"From Poverty Alleviation to Wealth Creation," Jason Bauer, consultant, OTF Group, Feb. 10, 12:20 p.m., 153 Uris Hall.

"Strengthening Financing to Achieve the MDGs in Africa: Towards a Constructive Engagement of the African Diaspora," Raj Bardouille, former senior economic affairs officer, United Nations Secretariat, Feb. 17, 12:20 p.m., 153 Uris Hall.

Applied Mathematics

"Computing Invariant Manifolds by Covering Them With Fat Trajectories," Michael Henderson, IBM Watson Research Center, Feb. 11, 3:30 p.m., 655 Rhodes Hall.

Astronomy & Space Sciences

"Dark Insights From Light: Addressing Different Perspectives on Dark Energy," Rachel Bean, Princeton University, Feb. 10, 4:30 p.m., 105 Space Sciences Building.

"Gamma-Ray Bursts in the Swift Era," Rosalba Perna, University of Colorado-Boulder, Feb. 17, 4:30 p.m., 105 Space Sciences Building.

Biogeochemistry & Environmental Biocomplexity

"Food Web and Landscape Perspectives on Bass Invasions in North-Temperate Lakes," Jake Vander Zanden, University of Wisconsin, Feb. 11, 4 p.m., A106 Corson Hall.

Biomedical Sciences

"Wnt/Ryk Signaling and Neural Development," Wange Lu, California Institute of Technology, Feb. 10, 2 p.m., Lecture Hall III, Vet Research Tower.

"Synapse, Mitochondria and More," Zheng Li, Massachusetts Institute of Technology, Feb. 17, 2:30 p.m., Lecture Hall III, Vet Research Tower.

Chemical & Biomolecular Engineering

"Mechanical Properties of Isolated Nuclei and Nuclear Domains: Rheological Implications in Gene Expression," Kris Noel Dahl, Johns Hopkins University School of Medicine, Feb. 14, 4 p.m., 165 Olin Hall.

"Breaking Symmetry in Stokes Flows and Resulting Hydrodynamic Forces on Objects," Jacqueline Ashmore, Feb. 16, 4 p.m., 165 Olin Hall.

Chemistry & Chemical Biology

TBA, Suzanne Hart, chemistry and chemical biology, Feb. 16, 4:40 p.m., 119 Baker Laboratory.

Civil & Environmental Engineering

"The Sumatra Earthquake and Tsunami: The Science Behind the Headlines," Philip Liu, civil and environmental engineering; and Muawia Barazangi and Dan Karig, earth and atmospheric sciences, Feb. 10, 4:30 p.m., B14 Hollister Hall.

Computer Science

"Group Dynamics *in Silico*: Complex Networks and the Human Flock," Michael Macy, Cornell, Feb. 10, 4:15 p.m., B17 Upson Hall.

Cornell High Energy Synchrotron Source

"Mixing X-rays and Laser Light: A Novel Recipe, but Does It Taste Good?" Ken Finkelstein, CHES, Feb. 11, 2:30 p.m., 380 Wilson Laboratory.

Cornell Institute for Public Affairs

"Engineers for a Sustainable World: Organizational Overview, Projects and Challenges," Dan Bonner and Maurice Ayache, Engineers for a Sustainable World, Feb. 10, 4:30 p.m., 100

Ensemble gives this Valentine's Day a jazz score in Barnes Hall

Warm up in Barnes Hall on Monday, Feb. 14, at 8 p.m. with "Jazz for Valentine's Day." Cornell Jazz Ensembles director and trumpeter Paul R. Merrill will play the music of Don Ellis and more.

Ellis is the inventor of the Holton quarter-tone trumpet and is best known for his use of odd meters and electronic effects in a fusion of diverse styles. Joining Merrill is local pianist Molly MacMillan, Jazz Ensemble I (guest conducted by Cynthia Johnston Turner) and the New York City-based Matt Garrity Trio, with Dave Ambrosio on bass and Pete Smith on guitar.

Merrill, an Ithaca native as well as a trumpeter, composer and educator, has been performing since the age of 10. As a teenager he performed with Joe Salzano and Spiegle Wilcox and appeared at the Goombay Jazz



Merrill

Festival (Bahamas) with his quintet, Interplay. In 1995 Merrill won a *Downbeat* award for his performance with the New Jazz Ensemble, directed by Rufus Reid.

He has toured with Hank Roberts, Jamaican reggae star Half Pint, John Brown's Body and the Grammy-nominated Phil Woods Big Band. As a trumpeter and big-band director, he has performed and collaborated with Vincent Herring, Terell Stafford, Maria Schneider, John Mosca, Brian Lynch, Rufus Reid, Wycliffe Gordon, Eric Alexander, Carl Allen, Kevin Mahogany, Darmon Meader, Claudio Roditi and Steve Gilmore, among others, while recording and arranging for Schanachie and I-town Records.

He currently is pursuing a D.M.A. in jazz studies at the Eastman School of Music.

Caldwell Hall.

"Transforming the United States Army for a New Millennium," Robert Nye, U.S. Army War College, Feb. 17, 4:30 p.m., 100 Caldwell Hall.

CIIFAD

"Sustainable Development From Community and Social Perspectives," Chris Barrett, applied economics and management; Lourdes Beneria, city and regional planning; and Tom Lyson, development sociology, Feb. 16, 12:20 p.m., 135 Emerson Hall.

Crop & Soil Sciences

"Support Vector Machines for Remotely Sensed Image Classification," Pramod Varshney, Feb. 10, 12:20 p.m., 135 Emerson Hall.

Earth & Atmospheric Sciences

"Ground-Penetrating Radar for Three-Dimensional Mapping of Buried Archaeological Sites," Lawrence Conyers, University of Denver, Feb. 17, 4:30 p.m., 2146 Snee Hall.

Ecology & Evolutionary Biology

"Butterfly Eyespots as Models to Study the Evolution of Development," Antônia Monteiro, SUNY-Buffalo, Feb. 14, 12:30 p.m., A106 Corson Hall.

Entomology/Jugatae

"Paradise Gained: Fruit Odor Discrimination and Sympatric Host Race Formation in *Rhagoletis* Flies," Charles Linn, Cornell, Feb. 14, 3:30 p.m., A106 Corson Hall.

Fluid Dynamics

"Very Inhomogeneous Turbulence Near Interfaces and in Swirling Flows," Julian Hunt, University College, London, Feb. 15, 11:45 a.m., 178 Rhodes Hall.

Infection & Immunity

"Flies, Germs and Genes: Evolutionary Genetics of Antibacterial Immunity in *Drosophila*," Brian Lazzaro, entomology, Feb. 11, 12:15 p.m., Boyce Thompson Institute Auditorium.

Language Resource Center

"Focus on Output: Using Assessments to Increase Student Accountability," Robert Davis, University of Oregon, Feb. 12, 9 a.m., Noyes Lodge. Contact Dick Feldman at <rf10@cornell.edu> to register.

Materials Science & Engineering

"Dislocation Patterning and Avalanches in Plastic Deformation," Marisol Koslowski, Los Alamos National Laboratory, Feb. 10, 4:30 p.m., 140 Bard Hall.

"Building a Virtual Laboratory With the Help of Thermodynamics and Quantum Mechanics," Axel van de Walle, Northwestern University, Feb. 17, 4:30 p.m., 140 Bard Hall.

Mechanical & Aerospace Engineering

"Thermochemistry, Reaction Pathways and Kinetics for Oxidation and Pyrolysis of Sulfur Hydrocarbons: Thiols and Sulfides Using Computational Chemistry," Joseph Bozzelli, New Jersey Institute of Technology, Feb. 15, 4:30 p.m., B11 Kimball Hall.

Microbiology

"Microbial Activity in High Arctic Soil a Very, Very Long Time Ago," Joseph Yavitt, natural resources, Feb. 17, 4 p.m., 105 Riley-Robb Hall.

Molecular Biology & Genetics

"Local Regulation of Microtubule Dynamics in Migrating Cells," Torsten Wittmann, Scripps Research Institute, Feb. 14, 4 p.m., G10 Biotechnology Building.

"Molecular and Cellular Mechanism Underlying Mammalian Neuronal Development and Circuit Formation," Song-Hai Shi, Howard Hughes Medical Institute, Feb. 16, 4 p.m., G10 Biotechnology Building.

Nanobiotechnology Center

"Real-Time Restriction Mapping of DNA Stretched in Nanofluidic Devices," Robert Riehn, Princeton University, Feb. 15, noon, G01 Biotechnology Building.

Natural Resources

"Resource Management Challenges: Lessons From a Career of Wolf Research," David Mech, Feb. 15, 4 p.m., G10 Biotechnology Building.

Neurobiology & Behavior

"Computational Insights Into Early Odor Processing," Christiane Linster, neurobiology and behavior, Feb. 10, 12:30 p.m., A106 Corson Hall.

Nutrition

"Evaluating Policy Options for Gene-Nutrient Interactions: A Case Study of Hemochromatosis," Min Tao, nutritional sciences, Feb. 14, 4 p.m., 100 Savage Hall.

Peace Studies Program

"Public Opinion About Civil Liberties and Other Freedoms," James Shanahan, communication, Feb. 10, 12:15 p.m., G08 Uris Hall.

Physics

"Science Results From the Mars Exploration Rover Mission," Steve Squyres, astronomy, Feb. 14, 4 p.m., Schwartz Auditorium, Rockefeller Hall.

Plant Breeding & Genetics

"Comparative DNA Sequence Analysis of Mapped Wheat ESTs Reveals Complexity of Genome Relationships Between Rice and Wheat," Mark Sorrells, plant breeding and genetics, Feb. 15, 12:20 p.m., 135 Emerson Hall.

Plant Pathology

"Self-Incompatibility in Crucifers: Mechanism and Evolution," June Nasrallah, plant biology, Feb. 16, 12:20 p.m., 404 Plant Science Building.

Psychology

"Speech Errors and Aphasia: Testing Freud's Continuity Thesis," Gary Dell, University of Illinois at Urbana-Champaign, Feb. 18, 3:30 p.m., 202 Uris Hall.

Textiles & Apparel

"New Developments in Fiber Formation," Margaret Frey, Cornell, Feb. 10, noon, 317 Martha Van Rensselaer Hall.

"Study of Compatibility in Biobased Blends," Grima Biresaw, NCAUR/ARS/USDA, Feb. 17, noon, 317 Martha Van Rensselaer Hall.

Theoretical & Applied Mechanics

"Mesoscopic Waves and Residual Coherence With Ultrasound," Richard Weaver, University of Illinois at Urbana-Champaign, Feb. 1, 4:30 p.m., 205 Thurston Hall.

theater

Theatre, Film & Dance

The Schwartz Center for the Performing Arts presents Alan Ball's comedy *Five Women Wearing the Same Dress*, Feb. 10-12 at 8 p.m., with

matinees offered Feb. 12 and 13 at 2 p.m. A "Meet the Actors" discussion will be held following the Feb. 10 performance. Note: This play contains content suitable for a mature audience. Tickets are \$10, \$8 for students and seniors. For information, visit the box office, 430 College Ave., between 12:30 and 5:30 p.m., weekdays, or call 254-ARTS.

• *The Nero Project*, a tale of desire and ambition weaves words, music and improvisation into an innovative evening of theater, Feb. 16-27 at 8 p.m. in the Black Box Theatre of the Schwartz Center. See story, Page 8.

miscellany

Alcoholics Anonymous

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

Cornell Campus Club

The Cornell Campus Club will host its spring Newcomers Coffee Feb. 10 from 9:30 to 11:30 a.m. in the Hasbrouck Apartments Big Room. All Cornell-affiliated women are invited to attend.

Early Childhood Center Open House

Cornell's Early Childhood Center is holding an open house March 26 from 10 a.m. to noon in Martha Van Rensselaer Hall, ground floor. Applications will be available for fall 2005. Children must be 3 years old. Parking by building.

Emotions Anonymous

Emotions Anonymous, a 12-step program for those dealing with emotional problems, meets Sundays at 7:30 p.m. and Tuesdays at 8 p.m. at St. Luke's Lutheran Church, 109 Oak Ave. For information, call Ed at 387-8257.

Writing Walk-in Service

• Noyes Center, Room 320, Sunday-Thursday, 7-10 p.m.
• Carol Tatkon Center, 3343 Balch Hall, Sunday-Thursday, 7-10 p.m.
• Robert Purcell Center, Room 222, Sunday-Wednesday, 7-10 p.m.
• Rockefeller Hall, Room 178, Sunday-Thursday, 3:30-5:30 p.m.

sports

Men's Basketball

Feb. 11, at Princeton, 7:30 p.m.
Feb. 12, at Penn, 7 p.m.

Women's Basketball

Feb. 11, Princeton, 7 p.m.
Feb. 12, Penn, 7 p.m.

Fencing

Feb. 12, in Philadelphia w/Columbia, Penn State, Penn and Temple

Gymnastics

Feb. 12, Big Red Invitational, 1 p.m.

Men's Hockey

Feb. 11, at Princeton, 7 p.m.
Feb. 12, at Yale, 7 p.m.

Women's Hockey

Feb. 11, Princeton, 7 p.m.
Feb. 12, Yale, 4 p.m.

Men's Lacrosse

Feb. 12, Drexel (scrimmage), 1 p.m.

Men's Polo

Feb. 12, at VFMA, 3 p.m.

Women's Polo

Feb. 11-13, Prelim. Interscholastic, TBA

Men's Squash

Feb. 10, at Hobart, TBA
Feb. 12, Brown, 11 a.m.

Women's Squash

Feb. 10, at William Smith, TBA
Feb. 12, Brown, 11 a.m.
Feb. 17, at WISA Champs., Princeton, N.J.

Men's Swimming & Diving

Feb. 12, at Brown, noon

Women's Swimming & Diving

Feb. 12, Buffalo, 1 p.m.

Track & Field

Feb. 11-12, at Penn State Invitational
Feb. 12, Kane Invitational

Wrestling

Feb. 11, at Brown, 1 p.m.
Feb. 12, at Harvard, 1 p.m.
Feb. 12, at Boston University, 5 p.m.

CALENDAR

February 10
through
February 17

TO SUBMIT A NOTICE:

Items for the calendar should be submitted by campus mail, U.S. mail or in person to Chronicle Calendar, Cornell News Service, Surge 3, Ithaca, N.Y. 14853. Notices should be sent to arrive 10 days prior to publication and should include the name and telephone numbers of a person who can be called if there are questions.

dance

Sweetheart Swing Dance

Cornell's Rooftop Mayhem Swing Club and Ithaca Social Dance are sponsoring a Sweetheart Swing Dance, featuring the Ageless Jazz Band, on Feb. 12 from 9 p.m. to midnight in Willard Straight Hall. Advance tickets are on sale at the WSH ticket office: \$5 students, \$8 non-students. At the door: \$7 students, \$10 non-students. Admission includes a jump swing lesson at 8 p.m. For more information, see <http://www.ithacasocialdance.com> or call 257-3161.

emeritus/retired

CAPE Lecture

"Chinese Family Survival Strategies in War and Revolution," Sherman Cochran, Feb. 10, 10:30 a.m., Boyce Thompson Institute Auditorium.

exhibits

Johnson Museum of Art

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

- "Taboo and Transgression in Contemporary Indonesian Art," through March 20.
- "Material Matters," through March 20.
- "Elana Herzog," through March 27.
- "Point of View: An Anthology of the Moving Image," through May 15.
- Artist's Talk: On Feb. 10 at 5:15 p.m. in the museum, Elana Herzog will speak in conjunction with her installation.
- Art for Lunch: Guest curator Amanda Rath will lead a tour of the exhibition of contemporary Indonesian art Feb. 10 from noon to 1 p.m. On Feb. 24 from noon to 1 p.m., curator Andrea Inselmann will investigate the unique installations of Elana Herzog.
- For Students Only: Tenth Annual Blues Night is Feb. 11 from 5 to 7 p.m. Celebrate Black History Month with an event that highlights art and music in the African-American tradition. Enjoy live blues, refreshments, art projects and tours. Free.
- Volunteer at the Johnson: Interested in knowing more about museums and how to get involved at the museum? Come to an informational session about opportunities available to students, Feb. 13 from 1 to 3 p.m.
- Saturday Eye-Opener for Children: On Feb. 19 from 10 a.m. to noon, children ages 7-12 can explore the exhibition "Material Matters" and experiment with materials unusual for making art. Fees: \$5 per child for museum members and \$6 per child for nonmembers. Seating is limited. Registration and payment are required by Feb. 16. Call 255-6464.
- Special Event: On Saturday, Feb. 26, the museum will host "An Elegant 'Modern' Evening," from 7 to 10 p.m. Refreshments, entertainment and artistic endeavors with a contemporary flair will make for an unusually creative affair. Fees: \$25 for members and \$30 for nonmembers. Seating is limited. Reservations and payment are required by Feb. 18. Call 254-4586.

Mann Library

(8 a.m.-midnight, M-Th; 8 a.m.-6 p.m., F; noon-5 p.m., Sat.; and noon-midnight, Sun.)

"Green Hope: The World of Trees" and "Keepers of the Hill: The Trees of Cornell - Photography by Matthew Pace '07" are on view at the first floor of the Mann Library addition through Feb. 28.

films

Films listed are sponsored by Cornell Cinema

and held in Willard Straight Theatre, except where noted, and are open to the public. All films are \$6 (\$4.75 for undergraduates and seniors; \$4 for Cornell graduate students and kids 12 and under). Visit the Cornell Cinema Web site at <http://cinema.cornell.edu>.

Thursday, 2/10

"S21: The Khmer Rouge Killing Machine" (2004), directed by Rithy Panh, 5 p.m.

"Bukowski: Born Into This" (2003), directed by John Dullaghan, 7:15 p.m.

"Zatoichi: The Blind Swordsman" (2004), directed by Takeshi Kitano, with Beat Takeshi, Tadanobu Asano and Ittoku Kishibe, 9:45 p.m.

Friday, 2/11

"Zatoichi: The Blind Swordsman," 7:15 p.m.

"Sky Captain and the World of Tomorrow" (2004), directed by Kerry Conran, with Jude Law, Gwyneth Paltrow and Angelina Jolie, 7:15 p.m., Uris.

"British Television Advertising Awards 2004," 9:45 and 11:30 p.m.

"Goodfellas" (1990), directed by Martin Scorsese, with Robert DeNiro, Ray Liotta and Joe Pesci, 9:45 p.m., Uris.

Saturday, 2/12

"Sing-a-Long Wizard of Oz" (1939), with emcee Richard Driscoll, 2 and 7:15 p.m. Tickets, on

sale now, are \$15 for the public; \$12 for students and seniors; and \$10 for kids 12 and under.

"British Television Advertising Awards 2004," 5 p.m.

"El Cid" (1961), directed by Anthony Mann, with Charlton Heston and Sophia Loren, 7 p.m., Uris.

"Zatoichi: The Blind Swordsman," 10 p.m.

"Sky Captain and the World of Tomorrow," 10:30 p.m., Uris.

Sunday, 2/13

"El Cid," 4 p.m.

"British Television Advertising Awards 2004," 7:30 p.m.

"Smiles of a Summer Night" (1955), directed by Ingmar Bergman, with Ulla Jacobsson and Eva Dahlbeck, presented by Pentangle, 7:30 p.m., Uris.

"Constantine" (2005), directed by Francis Lawrence, with Keanu Reeves and Rachel Weisz, 9:15 p.m., free. Passes for this sneak preview are available at the Willard Straight Hall ticket desk.

Monday, 2/14

"Repulsion" (1965), directed by Roman Polanski, with Catherine Deneuve, 7 p.m.

"Goodfellas," 9:15 p.m.

Tuesday, 2/15

"Bukowski: Born Into This," 7 p.m.

"Repulsion," 9:30 p.m.



Andrew Gillis

Director Beth Milles, left, works with members of the cast in developing the script for "The Nero Project," which will premiere at the Schwartz Center for the Performing Arts on Feb. 16.

New play at the Schwartz Center charts an emperor's reign, Feb. 16

Under the working title "The Nero Project," students and faculty in the Cornell Department of Theatre, Film and Dance are developing a new play depicting the reign and downfall of the volatile Roman Emperor Nero. Written by New York playwright/poet Steven Sater with Cornell Assistant Professor of Theatre Beth Milles, "The Nero Project" script chronicles eight events in the life of the politically corrupt and extravagant ruler.

The play was first workshopped at the Magic Theatre in Los Angeles to create a script that is fluid. "Now, we are imagining the world of the piece," said director Beth Milles. "Actors help find the truths in the characters and may even create and enhance the play's dialogue." Milles is excited to be able to bring this sort of theater process work to Cornell and its students. "Nothing is more powerful than to be involved in creating and developing a new work," she added.

Collaborating with Milles and Sater is well-known composer and recording artist Duncan Sheik. Sheik's 1996 self-titled debut album went gold and spawned the hit single "Barely Breathing." Sheik worked with Sater on his 2001 album, *Phantom Moon*, and the Broadway musical *Spring Awakening*.

"The Nero Project" features four of Cornell's Resident Professional Teaching Associates: Sarah K. Chalmers, Laurence Drozd, Godfrey L. Simmons Jr. and Peter Zazzali; and six student actors: Jeff de Picciotto, Reed VanDyk, Barrie Kreinik, Emily Ranii, Colista Turner and Michael Ladd. The Schwartz Center welcomes award-winning guest lighting designer Russell Champa, who comes to Cornell from San Francisco. Milles and Champa worked together on many productions, including the Broadway show *God Said 'Ha'*. Also collaborating on the look of the production are Kent Goetz (scenery), Richard MacPike (costumes) and Warren Cross (sound).

"The Nero Project" opens Wednesday, Feb. 16, at 8 p.m. Evening performances continue Feb. 17-20 and 23-26. Afternoon matinees will be offered Feb. 20, 26 and 27 at 2 p.m. Tickets are \$8 (students/seniors) and \$10 (general). A "Meet the Actors" discussion will be held following the Feb. 24 performance. For tickets and information, call or visit the box office in the Schwartz Center for the Performing Arts, 430 College Ave., between 12:30 and 5:30 p.m. weekdays or call 254-ARTS.

Wednesday, 2/16

"Hiding and Seeking: Faith and Tolerance After the Holocaust" (2003), with guest filmmaker Menachem Daum, 7 p.m.

"Maria Full of Grace" (2004), directed by Joshua Marston, with Catalina Sandino Moreno, Yenny Paola Vega and Patricia Rae, presented by LASP and CUSLAR, 8 p.m., Uris, free.

"Metropolis" (1926), directed by Fritz Lang, with Alfred Abel, Brigitte Helm and Rudolf Klein-Rogge, 9:45 p.m.

Thursday, 2/17

"Hiding and Seeking: Faith and Tolerance After the Holocaust," 5:15 p.m.

"Towards Bend the Knee" (2003), directed by Guy Maddin, with Darcy Fehr, Tara Birtwhistle and Amy Stewart, 7:15 p.m.

"The Motorcycle Diaries" (2004), directed by Walter Salles, with Gael Garcia Bernal and Rodrigo de la Serna, 9 p.m.

lectures

Cornell United Religious Work

Martin Luther King Jr. Commemorative Lecture: "Open My Eyes, Open My Soul: Discovering the Power of Diversity," Yolanda King, Feb. 15, 5 p.m., Sage Chapel.

Cornell University Library

"Restricted Access and Archives: Historical Realities of Underrepresented Groups and Their Place in Archive," ~~Whorley~~ Whorley, Simmons College, Feb. 16, 1 p.m., Libe Café, Olin Library.

East Asia Program

"The Challenge of Terrorism in Southeast Asia," Matthew Daley, president of the U.S. ASEAN Business Council, Feb. 14, noon, 279 Myron Taylor Hall.

International Planning

"Evaluating the Israeli Technological Incubator Program," Daniel Shefer, Harvard University, Feb. 11, 12:20 p.m., 335 Baker Hall.

Johnson Graduate School of Management

"Leadership and Entrepreneurship," Larry Tanenbaum, CEO of Kilmer Van Ostrand Co. and chairman of the Toronto Maple Leafs, Feb. 24, 4:30 p.m., B5 Sage Hall.

Mann Library

Chats in the Stacks Book Talk: "Trees in the Urban Landscape," Peter Trowbridge and Nina Bassuk, Feb. 10, 4 p.m., Mann Library addition, second floor.

Southeast Asia Program

"In Gallery Discussion of 'Taboo and Transgression in Contemporary Art From Indonesia: Conjoining the 'System' in Contemporary Indonesian Art,'" Amanda Rath, history of art, Feb. 10, noon, Johnson Museum.

music

Department of Music

• Feb. 10, 12:30 p.m., B20 Lincoln: Midday Music at Lincoln: Ina Leisinger, soprano, and Ulrich Leisinger, keyboard, present songs of C.P.E. Bach.

• Feb. 10, 8 p.m., Barnes Hall: Senior recital: Jevon Bindman, tenor, with Shane Levesque, piano. Includes songs by Fauré and Schumann's *Dichterliebe*.

• Feb. 14, 8 p.m., Barnes Hall: Paul Merrill, with guest artists and the Cornell Jazz Ensemble I, will present "Jazz for Valentine's Day." See story, Page 7.

• Feb. 17, 12:30 p.m., B20 Lincoln: Midday Music at Lincoln: Tsitsi Jaji, piano, will perform music of Schubert and Beethoven.

Cornell Concert Series

Dianne Reeves will perform Feb. 12 at 8 p.m. at the State Theatre, downtown Ithaca. Tickets are \$17-\$29 for the public, \$10-\$17 for students; and they are available at the Willard Straight ticket

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