



## Carnegie Mellon

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## Thanks, Coach!

### MANY HELP STUDENTS SECURE PRESTIGIOUS SCHOLARSHIPS

■ Abby Houck

Seven undergraduate students have been named Goldwater, Marshall, SMART, Truman and Udall scholars this academic year. Scholarship programs such as the Fulbright will announce recipients later this spring.

These scholarship winners work long hours to reach their personal and academic goals. The Carnegie Mellon students share another secret to success — an enthusiastic network of faculty, staff, alumni and former scholarship winners who support them throughout the application process.

“Applying for a prestigious scholarship is a big investment of time,” said Stephanie Wallach, assistant vice

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## Commencement Preview Inside



PHOTO BY KEN ANDREYO

CARNEGIE MELLON WILL HOLD ITS 112TH COMMENCEMENT AT 11 A.M., SUNDAY, MAY 17 IN GESLING STADIUM, WHERE ABOUT 3,400 UNDERGRADUATE AND GRADUATE DEGREES WILL BE CONFERRED. FOR A LOOK AT THIS YEAR'S KEYNOTE SPEAKER ERIC SCHMIDT, STUDENT SPEAKER ALLISON LUKACSY, THE HONORARY DEGREE RECIPIENTS AND A COMMENCEMENT WEEKEND SCHEDULE, SEE THE SPECIAL COMMENCEMENT PULLOUT SECTION INSIDE ON PAGES 5-8.

### SWINE FLU ALERT

At press time (April 30), Student Health Services (SHS) has requested that students, faculty and staff take precautions in response to the escalating situation involving human cases of swine influenza.

The following individuals should contact SHS immediately at 412-268-8220:

- Those who have recently arrived from Mexico, or other affected areas (see <http://www.cdc.gov/swineflu> for updated information);
- Those planning travel to Mexico;
- Those with a fever of 100 degrees F or more (37.8 C) and other flu-like symptoms.

Check [www.cmu.edu/alert/](http://www.cmu.edu/alert/) and [www.studentaffairs.cmu.edu/HealthServices/NewsAnnouncements/swineFlu.html](http://www.studentaffairs.cmu.edu/HealthServices/NewsAnnouncements/swineFlu.html) for updates.

## Former Treasury Undersecretary Joins Heinz College

■ Tom Catalano

David H. McCormick, former undersecretary for International Affairs at the U.S. Department of the Treasury, has joined the Washington, D.C., Office of Carnegie Mellon's H. John Heinz III College as a distinguished service professor of information technology, public policy and management. McCormick will be based in Washington and will interact with faculty and students both in Washington and in Pittsburgh. His focus will be on economics and public policy.

“We are thrilled to have Dave join our Washington, D.C., program,” noted Heinz College Interim Dean Ramayya Krishnan. “His presence in D.C. will not

only greatly expand our intellectual environment there, but will also enrich opportunities and connections for Carnegie Mellon students and faculty in both D.C. and Pittsburgh. With the economic crisis being one of the most pressing policy issues of today, having access to Dave's

expertise will be invaluable for our community.”

McCormick has served in global leadership roles at senior levels of business and government. From 2007 to 2009, as treasury undersecretary for

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# Q&A: Vivian Loftness Discusses Architecture's Role in Sustainability

■ Heidi Opdyke

*Vivian Loftness, University Professor in the School of Architecture, was recently awarded the Green Building Alliance 2009 Community Leader Shades of Green Award. Loftness was honored for her 30-plus-year career in environmental design and sustainability in architecture and for performance-based design for the Workplace of the Future. Loftness serves on the board of directors of the U.S. Green Building Council, and also serves on advisory boards for the Department of Energy, the Architect of the Capitol and the National Academy of Sciences. Hear more of her interview online at [www.cmu.edu/news/news-notes/piper/multimedia/loftness.mp3](http://www.cmu.edu/news/news-notes/piper/multimedia/loftness.mp3).*

## What are your areas of research?

I have three basic areas of research. First, the actual performance of buildings when they're occupied, known as post-occupancy evaluation. It's an incredible learning experience because the best-laid plans often do not play out, and design professions need to learn from the field.

We've learned that many buildings are overlit, provide inadequate ventilation and have very large thermal zones illustrating that we still lack innovative solutions to providing indoor environmental quality.

My second area of research is guidelines for high-performance buildings. Again it's not me alone, there's a team of six faculty and research scientists plus about 25 graduate students

focused on high-performance buildings in the Center for Building Performance and Diagnostics.

Our studies have shown that natural ventilation, daylight, passive solar heating and conditioning with nature's energy — is a critical first step. We continue to develop and study high-performance guidelines for building facades, mechanical and networking systems, lighting and interior systems. It's been incredibly enriching to look at architecture as a system of engineered and manufactured products and what that means to practice.

My third area of research is focused on the building delivery process. How do we get high-performance buildings or renovations to market? Both are dependent on the quality of the team at the outset. In the past, we've always assumed that the architect is a brilliant standalone. However, truly sustainable and high-performance buildings require that path to change. Architects still have a leadership role but without early engagement of the best design consultants who are part of making a high-performance building, the chances that you can add sustainability after the fact are pretty slim. In addition to performance programming and collaborative early design processes, our research is trying to break the mold of least first-cost decisionmaking. We continue to develop a case-based tool called Building Investment Decision Support (BIDS) to reveal the health and productivity benefits of sustainable buildings — system by system.

## Is most of your research on commercial buildings?

My area of research has been in the commercial building sector, offices, schools and hospitals. On the other hand, the faculty team absolutely focuses on housing as well, with demonstration homes in Pittsburgh and three entries into the Solar Decathlon competition in D.C. In my undergraduate course, I teach residential energy conservation and climate responsive passive conditioning, so every student will understand how small-scale buildings can be low-energy, or better yet, zero-energy.

## Where do you see building design going in the future?

There's some interesting variations in profiling future buildings. Some feel that high-tech buildings are our future. That we have the opportunity — through



VIVIAN LOFTNESS FINDS NATURAL-TECH SOLUTIONS A COMPELLING PART OF THE FUTURE OF ARCHITECTURE.

incredible innovations in photovoltaics and controls systems and dynamic facades and smart wiring — to dramatically improve the quality of our work, recreational and living environments while reducing the resource and energy consumption.

At the same time, I am beginning to think there is something incredibly compelling about low-tech natural conditioning. Some of the hesitation in dealing with natural conditioning is that nature is changeable. There's a lot more engagement involved. There's a new emerging field called biophilia and a parallel one called biomimicry, which project new design philosophies for the future.

Biomimicry argues that nature already has low-material, low-energy, high-performance solutions to the most obvious problems. If we can unlock nature's wisdom, we can make far more efficient solutions.

Biophilia argues that humans have an inherent need for an ongoing connection to nature. Indeed, for humans to flourish, we need the changeability of nature, fresh air, air flowing across our skin, air that's high in oxygen content — daylight and the variability of light, its color, its spectral distribution as part of our sleep cycles — solar heat, and more.

Both biomimicry and biophilia are great areas for research and design innovation. It's a very exciting time to be studying architecture. Design for the future will be created through the collaboration of the architects, engineers, civil engineers, interior designers and landscape architects collectively focused on the environment.

## As part of the team that designed Carnegie Mellon's Intelligent Workplace, what do you think are some of its important features?

The Intelligent Workplace, to our great surprise, is now 10 years old. It is a living laboratory and an office environ-

ment that tries to push every sustainability button simultaneously. We have a dozen sustainable design and engineering experiments running at any point in time that form the basis of Ph.D. dissertations, research grant proposals and, of course, everyday life. When things just don't work, we experiment to see if we can come up with better solutions. It is predominately a passively conditioned, daylight lab. There are some power demands that you can't replace with natural energies, but certainly heating, cooling and lighting can be. With more than 70 percent of the nation's electricity used in heating, lighting and cooling buildings, we're using our most precious resources for the most modest needs instead of looking to nature's abundant conditioning resources.

The Intelligent Workplace is more than energy research and demonstration. We're looking at air quality and innovative mechanical systems. We're looking at the longevity of systems and materials. With good design, nothing gets thrown away. If you want to reconfigure your office, you literally unclip and unbundle, and then you rearrange things and you reclip them and rebundle walls, worksurfaces, lights, networks.

## What else is going on in the School of Architecture that you find exciting?

The School of Architecture is in a very privileged place. We have a critical mass of faculty who are fundamentally committed to the notion of sustainability not just on a building level but on an urban level. We are a university in a rich, urban setting that has lots of viable neighborhoods that could use the design innovation. We have a long-term commitment in our curriculum to graduating students who are committed to sustainability.

The Carnegie Mellon campus is dedicated to environmental issues with faculty, departments, a president and a strategic plan that identifies the environment as critical to our future. It gives us a position that is almost unparalleled.

Carnegie Mellon has some of the most exciting research across a whole array of sustainability, health and quality of life issues. To house this amazing group of faculty and students, we have visions of a 60,000-square-foot "Santa's Workshop" filled with innovative laboratories where people make things, in a building that itself is zero-net energy, zero-net water and zero-net waste. We would take the best ideas from the Intelligent Workplace and add a new generation of design/engineering invention.

Inside this new wing for Margaret Morrison would be housed some of the most innovative think-tank invention spaces and new types of classrooms, where architects, engineers, political scientists, computer scientists and business people work together on the next generation of inventions for human health, productivity and environmental sustainability.



## the PIPER 5/09 Issue

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Inquiries concerning application of these statements should be directed to the Provost, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-6684 or the Vice President for Campus Affairs, Carnegie Mellon University, 5000 Forbes Avenue, Pittsburgh, PA 15213, telephone 412-268-2057.

Carnegie Mellon University publishes an annual campus security report describing the university's security, alcohol and drug, and sexual assault policies and containing statistics about the number and type of crimes committed on the campus during the preceding three years. You can obtain a copy by contacting the Carnegie Mellon Police Department at 412-268-2323. The security report is available through the World Wide Web at [www.cmu.edu/police/](http://www.cmu.edu/police/). Obtain general information about Carnegie Mellon University by calling 412-268-2000.

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# Art Drives Moor to Pittsburgh Passion

## FOOTBALL IS RESEARCH AND PERFORMANCE ART FOR ROOKIE TAILBACK

■ Bruce Gerson

Ayanah Moor is taking performance art in a very different direction — around end, off tackle and up the middle. The Carnegie Mellon associate professor of art is a rookie tailback for the Pittsburgh Passion in the full-contact Independent Women's Football League.

Moor, whose art explores the images, styles and language that we associate with subcultures, says she's intrigued by "shifting the signs of meaning," such as putting a feminine voice in a very masculine frame, or putting a 5'2", 125-pound 35-year-old in a football helmet and pads.

"I love the game of football ... but I never thought it was something I could play, based on my size and age," said Moor, whose artwork is cited and recognized among scholars of black popular culture. "I was at a dinner party talking about the fantasy I had of playing football and somebody said, 'Hey, you can try out. There are women who are petite that play.' So, I thought I would."

Moor impressed the coaches with her agility and speed during the summer tryout sessions and made the team. The Passion played flag football as a team-building experience and to learn the pace of the game before donning helmets and pads to begin full-contact drills last fall.

"The first time I got hit, it hurt, but it was really exciting," said Moor, who



FOOTBALL BALANCES AYANAH MOOR'S ACADEMIC LIFE. THIS ADVERTISEMENT APPEARS IN THE PITTSBURGH PASSION PROGRAM.

said she quickly got up, brushed herself off and returned to the huddle. "It's important to get up fast and let the defense know you can shake it off."

"When you're in the huddle, your heart's racing and you're trying not to look to the hole that you're going to run through, or to tip off the play in your stance. It's exhilarating. It's a rush," she said.

Moor, in her ninth year at Carnegie Mellon, teaches introductory

and advanced level courses as well as studio courses in lithography, silkscreen and intaglio. She practices three days a week with the Passion and works out at the gym on the off days.

"Art is what drives me, and it's not uncommon for artists to engage in performance that blurs life and art. Football is part research project, part performance art. ... It provides a nice balance to my academic life. In some ways it can be a bit of an escape," she said.

Moor missed the first few games of the season with a left calf strain but is eager to return to the lineup for the May 16 home game against the New York Nemesis at Newman Stadium in Wexford.

For more on Moor, visit her Web site at [www.ayanah.com](http://www.ayanah.com).

For more on the Pittsburgh Passion, visit [www.pittsburghpassion.com](http://www.pittsburghpassion.com).

## Women's Association Announces Scholarships

■ Abby Houck

Each year, the Carnegie Mellon Women's Association presents three \$1,000 scholarships to graduating women who have made an impact on the campus community. CMWA members fund the scholarships through membership dues and donations.

"Each winner is chosen by her own dean, department or adviser, because they know the students the best," said Paula Martin, CMWA president. "The departments are also grateful for the opportunity to acknowledge and award these women because they might not otherwise have the avenue to do so without CMWA's support."

This year's winners are Madeleine Pitsch, a computer science major with a minor in art, who will join Amazon.com as a software development engineer following graduation. She has played the piccolo and glockenspiel in the Kiltie Band. Pitsch was a student research assistant on Randy Pausch's Alice Project and has led several initiatives with Women@SCS.

Maddie Regan, a stage management major, will pursue a career in event production with Ohio Bike Week. Over



MAUREEN COHON, (FAR LEFT) HONORARY PRESIDENT OF CMWA, PRESENTED SCHOLARSHIPS TO SENIORS MADELEINE PITSCH, MADDIE REGAN AND HEATHER CHALFIN (LEFT TO RIGHT) AT THE GROUP'S ANNUAL AWARDS CEREMONY IN APRIL.

the past four years, she has coordinated more than 15 School of Drama productions. This year, she was student manager for the College of Fine Arts' New York City and Los Angeles showcases. She also played intramural basketball while managing her busy production schedule and full load of coursework.

Heather Chalfin, a biological sciences major with a minor in mathematical sciences, will attend The Johns Hopkins School of Medicine. She has

served as the president of the Sandwich Club service organization and has been a member of the Biological Sciences Student Advisory Council, Softball Club and the Emergency Medical Service. She also worked as a teaching assistant, academic counselor and undergraduate researcher as a recipient of Howard Hughes Medical Institute grants. She is an Andrew Carnegie Scholar and member of Mortar Board, Phi Kappa Phi and Phi Beta Kappa.

## GOLF TEAM WINS UAA CHAMPIONSHIP

■ Mark Fisher

The Carnegie Mellon men's golf team won its first-ever University Athletic Association (UAA) Team Championship on April 27 after firing a 305 to finish with a two-day total of 626. The 36-hole event was hosted by Emory University at the par-71 Royal Lakes Golf and Country Club in Flowery Branch, Ga.

"The UAA win was the biggest in the history of the golf program," said Head Coach Rich Erdelyi.

Erdelyi called the UAA win a team victory. Junior Christopher Lee led the way by winning the individual championship with a two-round score of 145. Freshman Michael Cheng birdied the 18th hole shooting 76 in the second round to finish first team All-UAA. Senior Josh Chen was steady shooting 78-82, and freshman Terence Einhorn bounced back with a 74 on the second day birdying three of the last five holes. Erdelyi added that senior Alex Timmons, the team's captain, showed great leadership at the tournament and all yearlong.

"Couple that with our first Mid-Atlantic Regional Championship along with three other invitational wins and you could sum up the season in one word ... marvelous!" Erdelyi said.

# Panel Offers Reviews, Ideas for Economic Recovery

■ Niki Kapsambelis

The U.S. economy will recover from its current crisis, according to a panel of experts assembled at Carnegie Mellon. But, as is often the case, the devil is in the details.

The panel, moderated by Senior Vice President and University Provost Mark S. Kamlet, was titled "The Global Economy: Policies and Strategies for Recovery."

The panelists' political ideologies and economic theories covered a broad spectrum, with some offering positive reviews for the Obama administration's recovery plan and others criticizing the stimulus package for focusing on the wrong priorities.

Participants included Allan Meltzer, the Allan H. Meltzer University Professor of Political Economy at the Tepper School of Business; Charles Evans, president and chief executive officer of the Federal Reserve Bank of Chicago (TPR '85, '89); Lee Branstetter, who holds joint appointments with the Heinz College and the College of Humanities and Social Sciences; Stuart Hoffman, senior vice president and chief economist for The PNC Financial Services Group; and Raymond Lane, a life trustee of Carnegie Mellon and managing partner at Kleiner Perkins Caufield & Byers, a leading Silicon Valley venture capital firm.

Lane, who described his opinion of the stimulus package as "mixed," says communities outside of hard-hit regions, such as southern Florida, southern California and Las Vegas, are in a "normal" recession, with 80 to 90 percent of U.S. consumers living within their means.

"Normal recessions are functional," he said. "They clean out fat."

By contrast, Meltzer said the United States will be "lucky if we see 1½ percent growth for awhile," which falls short of President Obama's forecast of 4 percent growth. He also faulted the stimulus package for having "too much redistribution, not enough real stimulus."

The crisis has reinforced how crucial a role the United States plays in the overall health of the global economy, Branstetter noted. Though China and India seem relatively healthy, both "are still poor countries" relative to the United States, he said.

One area where China and India are likely to play a key role is in development of clean technology, the panelists said.

As a venture capitalist, Lane has championed investments in clean energy technologies, something he said requires government help through spending or policy changes to gain momentum. He added that China and India are starting to take advantage of technologies that the United States has yet to embrace.

By contrast, Meltzer says it's 26 times more expensive to subsidize carbon-free technology than traditional energy sources such as oil and coal, which complicates government's ability to assist in its development.

Meltzer favors a carbon tax over a cap-and-trade system as a form of government incentive, but adds that such a system had little success in Europe and would require buy-in from India and China.

"That's going to cost us money," he said, adding that those emerging economies hope to grow on the strength of cheap energy, much as the United States did.

In terms of solving the current crisis, history suggests three solutions, says Branstetter: fiscal stimulus, economic stimulus and a bailout. It's rare to emerge from an economic downturn without spending public funds, he says, adding that the panelists merely disagree on how that money should be spent.

In closing, the panel acknowledged that given the historical data that exists, economists can generally agree on how an economy will react when stimulated by government actions and monetary policies. Where they will often differ, however, is on the perceived "correct" path to follow, as political perspectives and priorities come into play.

## COLLAGE CONCERT A HIT

■ Kristi Ries

Hundreds of performers from the School of Music presented the Collage Concert in Soldiers & Sailors Memorial Hall, a dramatic April event that combined music and performance and spanned six genres and composers from around the world. "The tremendous success of our Collage Concert demonstrates the versatility and professional level of achievement demanded by our faculty for our students," said Noel Zahler, head of the School of Music. "The community turned out for this important event, a first for the City of Pittsburgh and a bold new take on how all musical genres can be presented." The 90-minute nonstop concert included all of the school's ensembles. The closing piece, "Make Our Garden Grow" from Leonard Bernstein's *Candide*, featured vocalists singing from the aisles in a spectacular finale with a full orchestra on stage.

# Perfect Timing Brings Alumni, Students Together

■ Eric Sloss

PATRICK WILSON (BELOW) (A'95), WHO RECENTLY STARRED IN "WATCHMEN," AND HIS WIFE DAGMARA DOMINCZYK (A'98) SPOKE TO SENIOR ACTING AND MUSIC THEATER MAJORS DURING AN EARLY APRIL WORKSHOP ON ACTING FOR TELEVISION. EARLIER THAT DAY, THE COUPLE PARTICIPATED IN A PANEL DISCUSSION WITH MANU NARAYAN (A'95), TAMARA TUNIE (A'81) AND BILL PORTER (A'91).



PORTER (LEFT) AND NARAYAN HOSTED A WORKSHOP WITH JUNIOR ACTING AND MUSICAL THEATER MAJORS. ALSO THAT DAY, DAN GREEN (A'94), AN ACCOMPLISHED WRITER, DIRECTOR, PRODUCER AND FORMER CARNEGIE MELLON ALUMNI BOARD PRESIDENT, MET WITH SENIOR AND GRADUATE WRITERS, DIRECTORS AND DRAMATURGES TO TALK ABOUT HIS EXPERIENCE IN THE ENTERTAINMENT INDUSTRY. GARY

KLINE, ASSOCIATE TEACHING PROFESSOR OF VOICE IN THE SCHOOL OF DRAMA, WORKED WITH JENNIFER NEUBAUER, ASSISTANT VICE PRESIDENT OF V.I.P. RELATIONS, TO BRING THE ALUMNI BACK TO CARNEGIE MELLON FOR WHAT WAS A DAY THE STUDENTS WILL NEVER FORGET. TO VIEW A SLIDESHOW OF THE VISIT GO TO [WWW.CMU.EDU/NEWS/NEWS-NOTES/PIPER/MULTIMEDIA/MASTERCLASS.MOV](http://WWW.CMU.EDU/NEWS/NEWS-NOTES/PIPER/MULTIMEDIA/MASTERCLASS.MOV).



PHOTOS BY LOUIS STEIN



## Google's Eric Schmidt To Give Keynote Address

### HONORARY DEGREE RECIPIENTS INCLUDE DETRE, LOCKHART, RASHAD AND SHAPIRO



COURTESY OF ERIC SCHMIDT

ERIC SCHMIDT

#### ■ Bruce Gerson

Eric Schmidt, chairman of the board and chief executive officer for Google Inc., will speak at Carnegie Mellon's 112th commencement ceremony at 11 a.m., Sunday, May 17 in Gesling Stadium, where some 3,400 undergraduate and

graduate degrees will be conferred.

"We are honored to host a distinguished and star-studded group of honorary degree recipients this year, including our commencement speaker, Eric Schmidt. Eric is a world-renowned Internet strategist, entrepreneur and visionary with strong ties to Carnegie Mellon. His lifelong pursuit of excellence and his understanding of the dynamic nature of this university make him an ideal commencement speaker for us," said President Jared L. Cohon.

Since joining Google in 2001, Schmidt has shared responsibility for the company's day-to-day operations with founders Larry Page and Sergey Brin. He also has focused his attention on building the corporate infrastructure needed to maintain Google's rapid growth and on ensuring that quality remains high while product development cycle times are kept to a minimum.

Prior to joining Google, Schmidt was chairman and CEO of Novell, where he led the strategic planning, management and technology development for the global software corporation. Before leading Novell, he was chief technology officer and corporate executive officer at Sun Microsystems Inc., where he led the development of Java, Sun's platform-independent programming technology, and defined Sun's Internet software strategy. Before joining Sun in 1983, he held positions at Bell Laboratories and Zilog, and was a member of the research staff at the Computer Science Lab at Xerox, Palo Alto Research Center.

In 2006, Schmidt was elected to the National Academy of Engineering for "the development of strategies for the world's most successful Internet search engine company." He was named a fellow of the American Academy of Arts and Sciences in 2007.

Schmidt has served as a member of Carnegie Mellon's Board of Trustees and its School of Computer Science's Dean's Advisory Board. He is chairman of the board of directors for the New America Foundation.

Schmidt, who will also be awarded an honorary doctorate in science and technology from Carnegie Mellon, will share the commencement platform with four other honorary degree recipients. They are:

#### **Thomas Detre, M.D. Doctor of Humane Letters**



COURTESY OF THOMAS DETRE

THOMAS DETRE

Detre has served for 30 years at the University of Pittsburgh and was instrumental in the creation of the University of Pittsburgh Medical Center, a world-renowned medical center and research institution. He is the Emeritus Distinguished Senior Vice Chancellor for the Health Sciences and Emeritus Distinguished Service Professor of Psychiatry at the University of Pittsburgh. He has held a variety of academic and administrative appointments, including UPMC president and dean of the University of Pittsburgh School of Medicine and School of Public Health. Internationally renowned in the field of psychiatry, Detre is an emeritus fellow of the American College of Psychiatrists, a distinguished life fellow of the American Psychiatric Association, a fellow in the Academy of Behavioral Medicine Research and the American College of Neuropsychopharmacology, and a member of the Royal Society of Medicine. He has published numerous articles and chapters on recurrent depression, violence and aggression in children, and other biological

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## Bank CEO To Address Tepper School of Business

#### ■ Mark Burd

Robert Kelly, chairman and chief executive officer of The Bank of New York Mellon Corporation, will deliver the keynote address at the graduation ceremony for master's degree and Ph.D. recipients in the Tepper School of Business at 2 p.m., Saturday, May 16 at Soldiers & Sailors Memorial Hall. Kelly is a member of the Partnership for New York City and the Federal Advisory Council of the Federal Reserve Board. He is a member of the board of directors of the Financial Services Roundtable and serves as vice chairman of the Roundtable's CEO Regulatory Restructuring Advisory Council. He is also a member of the Financial Services Forum and serves as chairman of the Forum's Regulatory Reform and Modernization Task Force. Kelly is on the Board of Trustees of Carnegie Mellon.



# Student Speaker Aspires To Be a Catalyst for Change

■ Jillian Bateman

Allison Lukacsy intends to inspire the Class of 2009, a blend of artists, scientists and innovative thinkers, to be world leaders.

The student commencement speaker's speech, "Catalyst for Change," was inspired by the sounds she's been listening to since her first year at the university. As Lukacsy walked along the pathways of campus she heard musical interludes, shouts of enthusiasm and mumbled conversations about mathematical equations.

"I believe the 2009 graduates of Carnegie Mellon are truly the movers and shakers of the future," said Lukacsy, a fifth-year architecture major.

She's had experience at addressing commencement. While at Clearview Regional High School in New Jersey she served as her class valedictorian. This time around, she will recall the unique traditions that have surrounded the Class of 2009's college experience, reminding them to always look fondly upon Mobots, Buggies and Scotty dogs.

Lukacsy, of Mullica Hill, N.J., applied to Carnegie Mellon knowing that this was a place that would embrace her passions to educate, lead and serve.

"At Carnegie Mellon, we are pioneering solutions for the world," she said. "My intuition was right."

In addition to the time she's spent in the classroom, Lukacsy has served as a Student Life pre-college counselor. She is a lifetime member of the International Sorority Delta Delta Delta and the Rho Lambda National Women's Leadership Honor Sorority. In 2006, she became a founding member of the Greek Life Advisory Committee and has won numerous regional and state awards on the Carnegie Mellon Mock Trial team.

"I believe that she has the substance and the style to carry off an excellent speech," said Diane Shaw, professor of architectural history, who wrote her letter of recommendation for the honor. "I imagine her interest in being speaker is in part motivated by a desire to keep stretching her abilities, as well as to reach out to a wider campus community."

Ranked at the top of her graduating



PHOTO BY KEN ANDREYO

ALLISON LUKACSY IS AT THE TOP OF HER ARCHITECTURE CLASS AND WILL REPRESENT HER FELLOW GRADUATES AT COMMENCEMENT AS STUDENT SPEAKER. WATCH LUKACSY TALK ABOUT HER SPEECH AT [WWW.CMU.EDU/NEWS/NEWS-NOTES/MULTIMEDIA/LUKACSY.MOV](http://www.cmu.edu/news/news-notes/multimedia/luksy.mov).

architecture class, she has presented works at the "Fourth Year Design Awards" in the School of Architecture. She also has served as a coordinator in the school's Initiative for Architectural Mentorship Program.

"I'm drawn to architecture because it's creative, yet scientific," Lukacsy said. "One day I am picking up a paint brush. Another day I'm using hot glue guns or working with computer-aided design on my computer."

Lukacsy is applying for positions with architecture firms, but her after-graduation plans have yet to be determined. She intends to complete the Intern Development Program, a requirement for taking the architectural licensing exam and hopes to become a practicing architect, while traveling and working abroad.

The student commencement speaker selection process is coordinated by the

Office of the Dean of Student Affairs and according to Renee Camerlengo, director of special projects, Lukacsy was one of 17 applicants this year.

The selection process is rigorous. Applicants are encouraged to attend information sessions and required to submit a written application, which includes responses to four central questions and a draft of the applicant's speech. A letter of recommendation also is required. The final stage includes an interview process, in which a selection committee will ask the applicant questions and videotapes the applicant giving his/her draft speech.

"Allison was chosen for her

thoughtful and genuine message she had to share," Camerlengo said. "Her academic accomplishments, campus involvement and enthusiasm for her Carnegie Mellon experience made her an excellent choice."

Lukacsy is looking forward to reminiscing about the college experience, providing foresight for what is yet to come and highlighting the pieces of Carnegie Mellon that the students will forever take with them, including "a little piece of Tartan plaid stitched in our heart and work."

"This is a unique school, and I want my classmates to remember and cherish it," Lukacsy said.

## Cognizant Chief To Speak At Heinz College

■ Tom Catalano

The H. John Heinz III College will have two graduation ceremonies, one for the Information Systems and Management School (IS&M) and the other for Public Policy & Management. Francisco D'Souza (TPR'92), president and chief executive officer of Cognizant, a leading provider of information technology, consulting and business process outsourcing services based in New Jersey, will speak at the IS&M ceremony. D'Souza has 17 years of experience in the information technology industry in operational and advisory roles. He joined Cognizant when the company was founded in 1994. D'Souza led the company's North American and European operations, and later became chief operating officer. Earlier in his career, D'Souza spent four years at various divisions of The Dun & Bradstreet Corporation, holding key positions in marketing, strategic planning and new business development in Germany, the United States and India.

## *piper* TRIVIA

**Congratulations to the April Piper Trivia winners** — Michelle Pagnani, Ruth Staudacher, Cleah Schlueter and Heather Carney — for knowing that Sweepstakes races started in 1920.

For this month's Piper Trivia question, what is the name of the university's first Ph.D. graduate and what year did he or she receive the degree? The Piper staff will give away a \$25 gift card to the bookstore to the first four people who can correctly answer the question. Send your answers to [bg02@andrew.cmu.edu](mailto:bg02@andrew.cmu.edu) with "May Trivia" in the subject line. The winners' names will be published in the following issue. Previous winners are ineligible.

# Schedule of Events

Commencement weekend at Carnegie Mellon involves much more than the ceremony itself. Below is a list of events that will keep campus humming May 16-17.

## Saturday, May 16

8:30 – 9:30 a.m.

### **Phi Beta Kappa Honor Society Initiation Ceremony**

McConomy Auditorium, UC

Caps and gowns are required.

A breakfast will be served prior to the ceremony.

8 a.m. – 3 p.m., 6 – 8 p.m.

### **Commencement Welcome Area open** Kirr Commons, UC

9:30 a.m.

### **ROTC Commissioning Ceremony Naval Science (Navy)**

Soldiers & Sailors Memorial Hall  
(off campus)

10 – 11 a.m.

### **College Honors Ceremonies**

Various locations across campus.

Seniors receiving university and college honors will be recognized and presented with honors medallions and cords, which

should be worn during commencement on Sunday. Caps and gowns are not required.

2 – 8:30 p.m.

### **Diploma Ceremonies and Department Events**

Specific times and locations are listed on page 8.

4 – 5 p.m.

### **Carnegie Mellon Advising Resource Center Reception**

Singleton Room, Roberts Engineering Hall

5 – 7 p.m.

### **Pre-Commencement Jazz**

### **Reception for graduating seniors and their families**

Regina Gouger Miller Gallery,  
Purnell Center

To attend, RSVP by Wednesday, May 13,  
to [handring@andrew.cmu.edu](mailto:handring@andrew.cmu.edu) or  
1-800-226-8258.

8 – 9:30 p.m.

### **Doctor's Hooding Ceremony**

Wiegand Gym

Doctor's candidates will be recognized and hooded individually on stage. Caps and gowns are required. A reception for candidates, ceremony participants and their families and friends will immediately follow the ceremony in Schatz Dining Room and Rangos Hall. No tickets are necessary.

## Sunday, May 17

7:30 – 10 a.m.

### **Diploma Ceremonies and Department Events**

See page 8.

7:45 – 8:30 a.m.

### **Baccalaureate Celebration**

Wright-Rogal Chapel, UC

The Carnegie Mellon Interfaith Council will lead an interfaith baccalaureate ceremony. Attendance is optional. No

tickets are necessary. Caps and gowns are not required.

8 a.m. – 2 p.m.

### **Commencement Welcome Area Open** Kirr Commons, UC

10 a.m.

### **Robing for Faculty, Degree Candidates and members of the Platform Group**

TV Rec Room, West Wing

10:15 – 11 a.m.

### **Procession of Graduates**

Various locations across campus

11 a.m. – 12:30 p.m.

### **COMMENCEMENT**

Gesling Stadium

12:30 – 5 p.m.

### **Diploma Ceremonies and Department Events**

See page 8.

## Honorary Degree Recipients a “Star-Studded Group”

CONTINUED FROM PAGE FIVE

aspects of mental disorders and health policy issues. Detre has received many honors and distinctions, including his appointment as chairman of the National Library of Medicine.

### **Keith Lockhart (MFA'83) Doctor of Fine Arts**



KEITH LOCKHART

As conductor of the Boston Pops, music director of the Utah Symphony, and artistic director and principal conductor of the summer institute and festival at the Brevard Music Center, Lockhart is a major force in the music world. He has conducted symphony orchestras in more than 20 cities worldwide and led the Utah Symphony during opening ceremonies for the 2002 Olympic Winter Games. During his tenure, he has made more than 70 television shows, including three “Salute to the Symphony” specials, one of which won an Emmy Award,

and 38 programs for PBS’s “Evening at Pops.” In 2004, Lockhart and the Boston Pops appeared live with Sir Elton John on the pre-game show for Super Bowl XXXVI. During the 2008 season, he celebrated his 14th season as conductor of the Boston Pops, where he has led 31 national and four overseas tours. He has received numerous awards, including the Bob Hope Patriot Award from the Congressional Medal of Honor Society. This past January, Lockhart, who earned a master’s degree in fine arts at Carnegie Mellon in 1983, conducted the Carnegie Mellon Philharmonic during a program in New York City’s Carnegie Hall.

### **Phylicia Rashad Doctor of Fine Arts**



PHYLICIA RASHAD

Rashad has earned many awards for her acting roles on stage, in films and on television. Her Broadway credits include “Cat on a Hot Tin Roof,”

“Gem of the Ocean,” “Blue,” “Jelly’s Last Jam,” “Dreamgirls” and “A Raisin in the Sun,” for which she earned a Tony Award for Best Actress in 2004. While her Broadway and off-Broadway credits are many, she is perhaps best known for her television roles as Claire Huxtable on “The Cosby Show,” and as Ruth Lucas on “Cosby.” Rashad received the NAACP Image Award for “Best Actress in a Comedy Series” for both roles and also received two Emmy Award and People’s Choice Award nominations. She earned a 2009 NAACP Image Award for her television performance in “A Raisin in the Sun.” Rashad’s film credits include “Once Upon a Time When We Were Colored,” “Free of Eden,” “Loving Jezebel” and “The Visit.” She recently made her directorial debut at the helm of The Seattle Repertory Theatre’s production of Pittsburgh-native August Wilson’s “Gem of the Ocean.” Rashad is an active participant in charitable and nonprofit organizations and is dedicated to the importance of the fine arts in education.

### **Harold Shapiro Doctor of Public Policy**

A former president of Princeton University and the University of Michigan, Shapiro is currently a professor of economics and public affairs at Princeton, a trustee of the Alfred P. Sloan Foundation, chairman of the board at DeVry Inc., and a key member of many national public policy committees and boards. He



HAROLD SHAPIRO

is a member of the National Advisory Council for Human Genome Research, Johnson & Johnson’s Advisory Committee on Stem Cell Initiatives, the National Academy of Sciences’ Policy and Global Affairs Committee, and the National Academy of Sciences’ Committee on America’s Energy Future. He is also a member of the National Institutes of Health’s Council of Councils and the National Research Council’s Embryonic Stem Cell Research Advisory Committee. Shapiro is a former chair of the National Bioethics Advisory Commission, and served as a member and vice chair of President George W. Bush’s Council of Advisors on Science and Technology. He is a fellow of the American Academy of Arts and Sciences and the American Association for the Advancement of Science.

# Diploma Ceremonies

Graduating students receive their diplomas at department or college ceremonies held throughout commencement weekend. Complimentary shuttle service will be provided on Sunday afternoon to diploma ceremonies taking place off campus. Written directions to off-campus sites will also be available in the Commencement Welcome Area. Unless otherwise indicated, the reception will follow the ceremony.

## **Bachelor of Humanities & Arts and Bachelor of Science & Arts**

Ceremony: 8:30 a.m., Sunday, May 17  
Kresge Theater, College of Fine Arts  
Reception: 9:30 a.m.  
Alumni Concert Hall, College of Fine Arts

## **Carnegie Institute of Technology**

**Biomedical Engineering**  
Reception: 7:30 a.m., Sunday, May 17  
Ceremony: 8 a.m.  
Porter Hall 100 (Gregg Hall)

**Chemical Engineering**  
Ceremony: 12:30 p.m., Sunday, May 17  
Carnegie Lecture Hall, Carnegie Museum (off campus)  
Reception: following ceremony  
Hall of Architecture, Carnegie Museum  
4400 Forbes Avenue

**Civil & Environmental Engineering**  
Reception: 12:30 p.m., Sunday, May 17  
Ceremony: 2 p.m.  
Rooms 120 & 121, David Lawrence Hall  
University of Pittsburgh (off campus)  
3942 Forbes Avenue

**Electrical & Computer Engineering**  
Ceremony: 12:30 p.m., Sunday, May 17  
Reception: following ceremony  
Wiegand Gymnasium, UC

**Engineering & Public Policy/ Engineering & Technology Innovation Management**  
Ceremony and Reception: 8 a.m., Sunday, May 17  
Rangos 2 and 3, UC

**Information Networking Institute**  
Ceremony: 6 p.m., Saturday, May 16  
Reception: 7 p.m.  
Rodef Shalom Congregation (off campus)  
4905 Fifth Avenue

**Materials Science & Engineering**  
Ceremony: 1 p.m., Sunday, May 17  
Winchester Thurston School Auditorium (off campus)  
555 Morewood Avenue

**Mechanical Engineering**  
Ceremony and Reception: 2 p.m., Saturday, May 16  
Wiegand Gymnasium, UC

## **College of Fine Arts**

**School of Architecture**  
Ceremony: 2:30 p.m., Saturday, May 16  
Kresge Theater, College of Fine Arts  
Reception: 4 p.m.  
Great Hall, College of Fine Arts

**School of Art**  
Reception: 12:30 p.m., Sunday, May 17  
Regina Gouger Miller Gallery, Purnell Center  
Ceremony: 2:30 p.m.  
Philip Chosky Theater, Purnell Center

**School of Design**  
Ceremony: 3 p.m., Saturday, May 16  
Reception: 4 p.m.  
Rangos Hall, UC

**School of Drama**  
Ceremony: 12:30 p.m., Sunday, May 17  
Philip Chosky Theater, Purnell Center  
Reception: following ceremony  
Purnell Center lobby

## **School of Music**

Ceremony: 12:30 p.m., Sunday, May 17  
Kresge Theater, College of Fine Arts  
Reception: following ceremony  
Alumni Concert Hall, College of Fine Arts

## **College of Humanities & Social Sciences**

**Economics/Bachelor's Business Administration**  
Reception: 12:30 p.m., Sunday, May 17  
Ceremony: 2 p.m.  
Soldiers and Sailors Memorial Hall (off campus)  
4141 Fifth Avenue

**English**  
Ceremony: 2:30 p.m., Saturday, May 16  
McConomy Auditorium, UC  
Reception: following ceremony  
Schatz Dining Room, UC

**History**  
Reception: 8 a.m., Sunday, May 17  
Lower Level Coffee Lounge, Baker Hall  
Ceremony: 9 a.m.  
Giant Eagle Auditorium, Baker Hall

**Information Systems**  
Ceremony: 6 p.m., Saturday, May 16  
Philip Chosky Theater, Purnell Center  
Reception: 7:30 p.m.  
Purnell Center lobby

**Modern Languages**  
Ceremony: 8:30 a.m., Sunday, May 17  
Rangos 1, UC  
Reception: following ceremony  
Skibo Coffeehouse, UC

**Philosophy**  
Breakfast: 8 a.m., Sunday, May 17  
Ceremony: 8:30 a.m.,  
Reception: following ceremony  
Adamson Wing, Baker Hall

**Psychology**  
Ceremony and Reception: 12:30 p.m., Sunday, May 17  
Rangos Hall, UC

**Social & Decision Sciences**  
Reception: 7:30 a.m., Sunday, May 17  
Schatz Dining Room, UC  
Ceremony: 8:30 a.m.  
McConomy Auditorium, UC

**Statistics**  
Ceremony: 12:30 p.m., Sunday, May 17  
Giant Eagle Auditorium, Baker Hall  
Reception: following ceremony  
Lower Level Coffee Lounge, Baker Hall

**Student-Defined Majors**  
Ceremony and Reception: 12:30 p.m., Sunday, May 17  
Adamson Wing, Baker Hall

## **H. John Heinz III College**

**School of Information Systems & Management**  
Ceremony: 2 p.m., Saturday, May 16  
Philip Chosky Theater, Purnell Center  
Reception: 2:45 p.m.  
Purnell Center lobby

**School of Public Policy & Management**  
Ceremony and Reception: 2 p.m., Sunday, May 17  
Rodef Shalom Congregation (off campus)  
4905 Fifth Avenue

## **Interdisciplinary Programs**

**Carnegie Mellon Advising Resource Center (CMARC)**  
Reception: 4 p.m., Saturday, May 16  
Singleton Room, Roberts Engineering Hall

**Entertainment Technology Center**  
Reception: 12:30 p.m., Sunday, May 17  
Ceremony: following reception  
East End Lounge, Heinz Field (off campus)  
100 Art Rooney Avenue  
*NOTE: Shuttle service not provided.*

**Master of Product Development**  
Ceremony and Lunch: Noon, Friday, May 15  
Rangos 3, UC

**Mellon College of Science Biological Sciences**  
Ceremony: 2 p.m., Saturday, May 16  
Mellon Institute Auditorium, Mellon Institute  
Reception: following ceremony  
Social & Conference Rooms, Mellon Institute

**Chemistry**  
Ceremony: 2 p.m., Sunday, May 17  
Mellon Institute Auditorium, Mellon Institute  
Reception: following ceremony  
Social & Conference Rooms, Mellon Institute

**Mathematical Sciences**  
Ceremony: 12:30 p.m., Sunday, May 17  
Room 2315, Doherty Hall  
Reception: following ceremony  
Perlis Atrium, Newell-Simon Hall

**Physics**  
Ceremony and Reception: 12:30 p.m., Sunday, May 17  
Room 7500, Wean Hall

## **School of Computer Science**

Ceremony and Reception: 1 p.m., Sunday, May 17  
Carnegie Music Hall, Carnegie Museum (off campus)  
4400 Forbes Avenue

## **Tepper School of Business**

**Bachelor's Business Administration/Economics**  
Reception: 12:30 p.m., Sunday, May 17  
Ceremony: 2 p.m.  
Soldiers & Sailors Memorial Hall (off campus)  
4141 Fifth Avenue

**Master's & Doctor's Business Administration**  
Ceremony and Reception: 2 p.m., Saturday, May 16  
Soldiers & Sailors Memorial Hall (off campus)  
4141 Fifth Avenue

## **ROTC**

**Aerospace Studies (Air Force)**  
Ceremony and Reception: 10 a.m., Saturday, May 9  
Lower Lounge, William Pitt Union, University of Pittsburgh (off campus)  
4200 Fifth Avenue

**Naval Science (Navy)**  
Ceremony: 9:30 a.m., Saturday, May 16  
Soldiers & Sailors Memorial Hall (off campus)  
4141 Fifth Avenue

# COMMENCEMENT 2009 — GENERAL INFORMATION

## **Cap and Gown Information**

*Distribution:*  
McKenna/Peter/Wright Room, second floor, UC  
Tuesday, May 12: 10 a.m.-3 p.m. (Only faculty and staff who have submitted orders)  
Wednesday, May 13: 10 a.m.-4 p.m. (First student distribution day, no faculty please)  
Thursday, May 14: 10 a.m.-4 p.m.  
Friday, May 15: 10 a.m.-6 p.m.  
Saturday, May 16: 7 a.m.-3 p.m., 6-8 p.m.  
Sunday, May 17: 7:30-11 a.m.

*Return:*  
McKenna/Peter/Wright Room, second floor, UC  
Sunday, May 17: Noon-6 p.m.  
Monday, May 18: 9 a.m.-6 p.m.  
After Monday, May 18 and until Tuesday, June 2, returns can be made directly to the Computer Sales Department in the lower level of The University Store. No returns will be accepted after June 2.

## **The University Store, Entropy+ and Art Store**

These retail stores offer art/office supplies, books, clothing, film, memorabilia, snacks and soda.

### **Hours of operation:**

**The University Store**  
Friday, May 15: 9 a.m.-7 p.m.  
Saturday, May 16: 9 a.m.-6 p.m.  
Sunday, May 17: 8 a.m.-6 p.m.

**Art Store**  
Friday, May 15: 9 a.m.-5 p.m.  
Closed Saturday and Sunday

**Entropy+**  
Friday, May 15: 7:30 a.m.-7:30 p.m.  
Saturday, May 16: 8 a.m.-8 p.m.  
Sunday, May 17: 8 a.m.-6 p.m.

## **Dining**

The dining facilities below offer hot and cold beverages, snacks and light meals.

### **Hours of operation:**

**Si Señor**  
First floor, UC  
Closed Friday and Saturday  
Sunday, May 17: 10:30 a.m.-6 p.m.

**Skibo Café**  
Second floor, UC  
Friday, May 15: 9 a.m.-5 p.m.  
Saturday, May 16: 9 a.m.-5 p.m.  
Sunday, May 17: Closed

Complimentary water service will be available at various locations in the stadium during the main commencement ceremony. Complimentary coffee and tea at the Commencement Welcome Area in the UC also will be provided. To help protect the stadium track and field surface, food, chewing gum and beverages other than water are not permitted in the stadium.

## **Special Needs**

Seating for guests with special needs and their families will be available in a special section on the field, which will be indicated with signage. Up to three guests are permitted to sit with a disabled guest. Volunteers will be stationed in this area to assist guests with seating. A sign language interpreter will be present at the Doctor's Hooding Ceremony and the main commencement ceremony. A wheelchair-accessible ramp to the field is near the stadium entrance closest to the University Center. All campus buildings and parking areas are also wheelchair accessible. A seating map will be available at the Commencement Welcome Area, or ask any commencement staff member for assistance. No reservation is required for this seating.

## **Wheelchair Rental**

A limited number of wheelchairs and electric scooters will be available for rental on campus on Sunday, May 17 ONLY. To ensure availability, please call the Wheelchair Exchange at 412-241-5121 to reserve your rental. Two-day rates, hotel and home delivery are also available.



# Silicon Valley Campus Commemorates Rwandan Genocide

■ Ann Lyon Ritchie

Carnegie Mellon's Silicon Valley Campus commemorated the "International Day of Reflection on the 1994 Genocide in Rwanda" in April with a reading and a lunch.

The event, coordinated by Information Networking Institute (INI) students from Rwanda, was attended by approximately 40 students, staff and faculty from Silicon Valley and the Pittsburgh campus. Master's degree student Alain Kajangwe served as master of ceremonies, and Dena Haritos Tsamitis, director of the INI, spoke. Martin Griss, associate dean for research at Silicon Valley, participated in the event with a prayer for the victims of the Jewish Holocaust as a remembrance of all people around the world who experienced any genocide. Innocent Habiaremye, another Rwandan student, spoke as well.

"We, students from Rwanda, are very much pleased by and thankful for the INI administration and the entire Carnegie Mellon community support

and solidarity," Habiaremye said. "As we reflect on the tragic events that happened in Rwanda 15 years ago, let's not forget that there are people out there who still have genocide ideologies and continue to deny that it has happened. There are nations that refuse to recognize the world's moral responsibilities during those days as well."

Habiaremye said Rwandans experienced what was documented as the worst genocide of the 20th century. From a population of 7.3 million people in 1994, at least one estimate reports as many as 1,174,000 Tutsis and moderate Hutus were killed over 100 days.

Under the leadership of the democratically elected President Paul Kagame, the country has recorded remarkable achievements in the region and on the international scene, Habiaremye said. Improvements include having the world's largest number of women in parliament and in other decision-making positions, initiating education for all



PHOTO BY JIM BLOCK

MUSHABE BENJAMIN KAGS (FROM LEFT), JEAN-BAPTISTE MINANI, INNOCENT HABIAREMYE, PAULA HELEN SAPHIR, PATRICK MANIRAHU AND ALAIN KAJANGWE ARE RWANDAN STUDENTS AT CARNEGIE MELLON'S SILICON VALLEY CAMPUS.

children and sending the largest contingent of peacekeepers into the Darfur-Sudan region. He added that science and information technology are regarded as the enablers of the country's vision of

becoming a knowledge-based, middle-income society by the year 2020.

"It's an ambitious endeavor, but one that is attainable," Habiaremye said.

## SDS Faculty Named to Intelligence Panel

■ Heidi Opdyke

Two professors from the Department of Decision Sciences (SDS), Baruch Fischhoff and Kiron Skinner, were appointed to the Committee on Behavioral and Social-Science Research to Improve

Intelligence Analysis for National Security, an ad hoc panel formed by the National Academies. The panel's goal is to improve the work of the intelligence community. The Office of the Director of National Intelligence requested

that the National Research Council, part of the National Academies, convene a panel of experts to assess behavioral and social-science research evidence relevant to the work of intelligence analysts. The panel,

chaired by Fischhoff, who has a joint appointment in the Department of Engineering and Public Policy, will recommend research needed to understand the problems analysts face and to identify possible solutions.

## Service With A Skyline



PHOTO BY HEIDI OPDYKE

ALIA LUBERS, A FIFTH-YEAR SENIOR IN CHEMICAL ENGINEERING, ASSISTS WITH THE CLEANUP ON MT. WASHINGTON AS PART OF 1000PLUS, A CARNEGIE MELLON DAY OF SERVICE IN LATE MARCH. MORE THAN 750 STUDENTS, FACULTY, STAFF AND ALUMNI REGISTERED TO ASSIST IN SERVICE EFFORTS IN PARTNERSHIP WITH PITTSBURGH CARES. "THE 1000PLUS PLANNING COMMITTEE AND THE PITTSBURGH CARES STAFF ARE VERY PLEASED WITH THE TURNOUT FOR THE 1000PLUS DAY OF SERVICE. WE ACHIEVED A FEW VERY IMPORTANT GOALS," LUCAS CHRISTAIN, STUDENT DEVELOPMENT COORDINATOR, SAID. "THE DAY OF SERVICE EXPOSED THE CARNEGIE MELLON COMMUNITY TO A NUMBER OF UNIQUE SERVICE OPPORTUNITIES AND HELPED BRING LIGHT TO MANY OF THE GREAT SERVICE EXPERIENCES ALREADY HAPPENING AT CARNEGIE MELLON. EVERYONE IS EXCITED ABOUT HOW THIS PROGRAM WILL GROW IN THE COMING YEARS." THE NEXT 1000PLUS DAY OF SERVICE WILL BE MARCH 27, 2010.

## Shoot For The Sky

■ Chriss Swaney

The Institute for Complex Engineered Systems (ICES) hosted 34 Pittsburgh area fourth-graders in an interactive program designed to entice more youth into engineering and science careers. The 15th annual Moving 4th Into Engineering Program in early April featured hands-on activities to help boost interest in math and science. The United States is producing a far smaller number of engineers per capita after 20 years of economic growth, according to The American Society for Engineering Education. Fewer than 5 percent of all bachelor's degrees awarded in 2006 were in engineering, the most recent year that data is available. In addition to ICES, the program is made possible by the collaborative efforts of the Department of Civil and Environmental Engineering, the Chemical Engineering Department, the Leonard Gelfand Center for Service Learning and Outreach, and the Pennsylvania Infrastructure Technology Alliance. A cake shaped like a space rocket was the ultimate prize for rocket competition winners.



PHOTO BY LARRY RIPPEL

KEITH FLORIG (LEFT), SENIOR RESEARCH ENGINEER, AND ENDER FINOL, ASSOCIATE RESEARCH PROFESSOR, SHOWCASED A MODEL ROCKET THAT FLORIG'S SON BUILT. AFTERWARDS, FOURTH GRADERS BEGAN ASSEMBLING THEIR OWN.

# Students, Reebok Launch Limited-Edition Sneakers Honoring Education

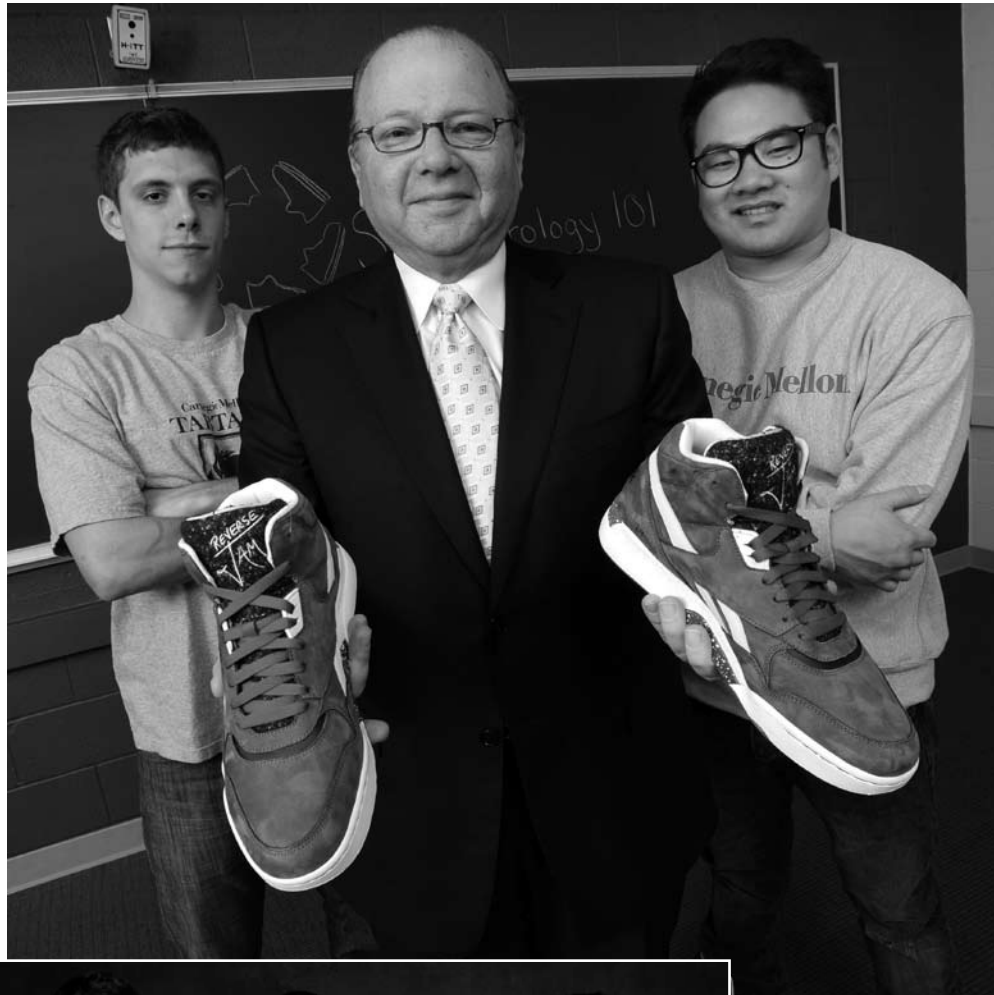


PHOTO BY KEN ANDREYO

■ Abby Houck

Andrew Carnegie would've loved these "pairs" — the entrepreneurial and philanthropic Carnegie Mellon students Jesse Chorng and Elliott Curtis, and the "Sneakerology Reverse Jam" Sneakers, the new limited-edition "kicks" they're releasing in partnership with Reebok to benefit Pittsburgh's Hill House Association. Chorng of Los Angeles and Curtis of Brookline, Mass., creators of the first university course on sneaker culture, designed the Sneakerology edition of Reebok's Reverse Jam to honor the opportunities created by education and the impact of sneakers on identity and culture.

The Sneakerology Reverse Jam draws inspiration from traditional education settings and Carnegie Mellon. The slate nubuck (a soft, velvet-like leather), yellow side-stripes and wool felt tongue pay homage to classroom staples — the blackboard, chalk and eraser. The university's colors accent the sneaker's outsole, stitching and laces. The insole includes information about the history of the Reverse Jam and a custom plaid reflecting the Scottish heritage of Carnegie Mellon founder Andrew Carnegie. The Sneakerology 101 class logo adorns the heel.

Only 101 pairs of the shoes were available for order at Kicksburgh, a community celebration of sneaker culture coordinated by Sneakerology 101 students in lieu of a final exam. The shoes have all been sold. The event included live demonstrations by graffiti artists, performances by breakdancers and sneaker exhibits, and it served as a sneaker drive for the Soles4Souls charity.

ELLIOTT CURTIS, PRESIDENT JARED COHON AND JESSE CHORNG (FROM LEFT TO RIGHT) DISPLAY A PAIR OF "SNEAKEROLGY REVERSE JAM" SNEAKERS.

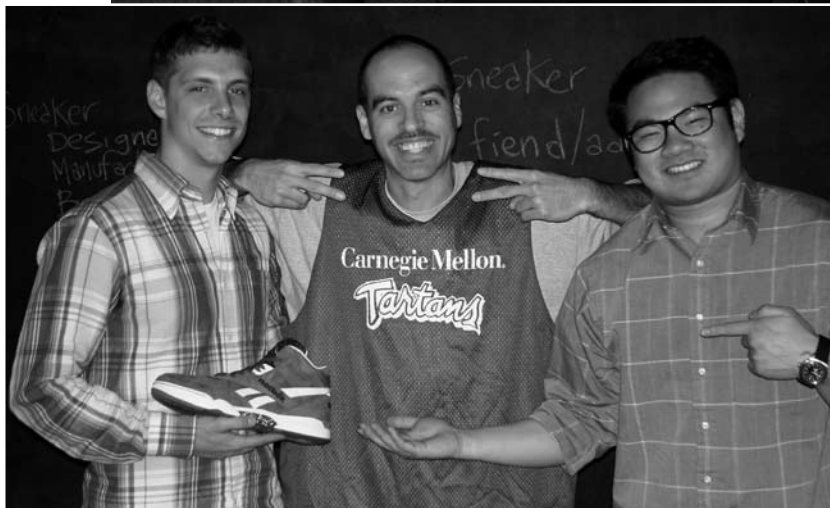


PHOTO BY ABBY HOUCK

THE STUDENTS BROUGHT BOBBITO GARCIA (CENTER), AUTHOR OF "WHERE'D YOU GET THOSE? NEW YORK CITY'S SNEAKER CULTURE: 1960-1987," TO CAMPUS AS PART OF THE UNIVERSITY LECTURE SERIES.



KICKSBURGH, THE CLASS FINAL, INCLUDED PERFORMANCES BY BREAKDANCERS.

PHOTO BY ABBY ROSS

## NEWS BRIEFS

### Russia Awards Scott Medal

The Russian Academy of Science's Sobolev Institute of Mathematics has awarded its 2009 Gold Medal for Great Contributions to Mathematics to Dana S. Scott, the Hillman University Professor of Computer Science, Philosophy and Mathematical Logic, Emeritus. Scott has made fundamental contributions to contemporary logic and is best known for his creation of domain theory, a branch of mathematics that is essential for analyzing advanced computer programming languages. He will receive the award at the Malt'sev Meeting, an international conference on algebra, mathematical logic and applications, Aug. 24-28 in Novosibirsk, Russia.

### Telang Earns Sloan Fellowship

Rahul Telang (TPR'02), associate professor of information systems at the Heinz College, has been awarded the competitive Alfred P.

Sloan Industries Study Fellowship. Telang was awarded one of three fellowships this year for his study on the Digital Media Industry. The two-year fellowship supports faculty from a variety of academic disciplines to conduct industry studies research. Watch Telang talk about his research at <http://www.cmu.edu/news/news-notes/multimedia/rahultelang.mov>.

### Rohet Tolani Distinguished Professorship Awarded

Kannan Srinivasan, a marketing professor at the Tepper School of Business, has received the first Rohet Tolani Distinguished Professorship in International Business. The professorship was established by Rohet Tolani (TPR'77), vice chairman and leader of the Singapore arm of the Tolani Group. The Rohet Tolani Distinguished Professorship in International Business has been created to further academic research and education relating to developing markets in nations including Singapore, India, China, Africa and in other areas of the world.

Srinivasan has published more than 50 papers in leading business and statistics academic journals in the areas of marketing and management science. He will soon be publishing new research dealing with path analysis using click stream associated with online browsing and an empirical study on how Internet auction companies have developed innovative tools that allow sellers to reveal more information about their credibility and product quality to avoid the "lemons" problem.

### Cofield Named To N.Y. Board of Regents

Milton L. Cofield, associate teaching professor and executive director of the undergraduate business program at the Tepper School, has been elected vice-chancellor of the New York State Board of Regents. The New York State Regents comprise the state's policy-making body regarding public and private education at all levels, the licensure and discipline for 48 specific professions and the chartering of state

museums and cultural organizations including public television.

### Lowry Selected For Engineering Prize

Gregory V. Lowry has been selected to receive the prestigious 2009 Walter L. Huber Civil Engineering Research Prize from the American Society of Civil Engineers (ASCE). The prize is awarded to ASCE members under the age of 40 in honor of their notable research achievements in civil engineering. Lowry, an associate professor of civil and environmental engineering, will receive his award at the ASCE national meeting in May in Kansas City, Mo. Lowry's work focuses on developing new nanoparticles to clean up contaminated sites. These "smart" new nanoparticles are designed to clean up toxins that resist conventional remediation methods.

# Class Documents Lives in Transition

■ Shanley Eric Kane

Photography captures lives, but can it change them? Students in Charlee Brodsky's "Lydia's Place" class think so. For the past semester, they have been finding ways to use pictures to help incarcerated women and their children stay connected despite the challenges they face.

The class worked with Lydia's Place, a local non-profit organization dedicated to helping female offenders and their children rebuild their lives during and after incarceration. Each week, students attended a support group for incarcerated women. Most live in half-way or three-quarter-way houses, and most are recovering from addiction to heroin or crack cocaine. Many of them are separated from their children.

"At first, we wondered how the women would react to us; we wondered how we would react to the women. But as soon as the cameras came out, any ice in the support group melted. Through making photographs, we began to get to know one another," said Brodsky, a professor of design.

Students did group activities with the women, ranging from discussions to art projects, and paired up for one-on-one interaction. Each week, the women were given photos of themselves to share with their families and children. Additionally, each student worked with one woman to create some personal project — a photo book or other item — to help her stay close to her children. At the end of the semester, the class worked on a collective book capturing the stories of the women of Lydia's Place. They also detailed their working process in an effort to show how photography can be used as a tool to explore social issues.

"These gifts to the women are beautiful memories of time we spent together. We also hope that these books, that are intended to share with their families,



BRIGIT KANG PHOTOGRAPHS MELISSA (LAST NAME IS WITHHELD), A RESIDENT OF LYDIA'S PLACE, A HALF-WAY HOUSE THAT HELPS FEMALE OFFENDERS.

show them how important they are to their families' lives," Brodsky said.

It became clear to students as the project progressed that the struggles of incarcerated women are neither so distant nor so isolated as they seem — last year, Lydia's Place helped more than 10,000 adults and children.

"Many of us, who have never been incarcerated, are much less removed from the incarcerated population than we would like to believe. The difference between being incarcerated and not being incarcerated can be as simple as one decision," said Lauren Grant, a senior majoring in history and policy.

As the women shared their individual stories, a more universal theme emerged: the need to be heard.

"The thing that most surprised me about the women is how open and willing they are to tell us about themselves. It seems as though they really want someone to just listen to their story," said Jonathan Scholl, a first-year graduate student earning his master's degree in health care policy and management.

The project also illuminates the problems faced by women re-entering the world after incarceration. As many women at Lydia's Place point out, being out of jail and being clean isn't enough.

"Often, repeat offenders do not experience the support that may be necessary to maintain life outside of bars. Although women may serve time, when they get out it is hard not to get caught up in it again," said Sarah DeWath, a senior psychology major.

The students' visits have helped the women develop their own passions, talents and coping mechanisms as they shared artwork, wrote poetry and worked on creative projects.

"Many of our clients are learning that although many of them have not had the opportunity to be well educated, many of them have artistic abilities," said Vicki Sirockman, director of Lydia's Place.

In the end, the project takes on an ambitious question: can photography heal and improve relationships? Brodsky hopes so.

"Before our experience with the support group ended, I asked the women if our work with them meant anything. There was a resounding yes," she said.

## McCormick Joins Heinz College

CONTINUED FROM PAGE ONE

International Affairs, he oversaw policies affecting global financial markets and led the international response to the crisis. Before joining the Treasury Department, McCormick was deputy national security advisor for international economic policy and the president's personal representative to the Group of Eight industrialized countries. He also served as undersecretary of commerce for Export Administration, where he oversaw policies affecting more than \$200 billion in annual high technology exports.

Prior to joining the government, McCormick was a successful entrepreneur and business leader in the technology sector. As former CEO of FreeMarkets, he helped build a profitable publicly traded software and services company with 1,000 employees and 19 offices around the world. Following the sale of FreeMarkets to Ariba, McCormick became president of the combined company where he oversaw operations across 25 offices and more than 2,000 employees worldwide. Earlier in his career, he worked as a consultant for McKinsey & Company.

McCormick received a mechanical engineering degree from the U.S. Military Academy at West Point and a Ph.D. from the Woodrow Wilson School of Public and International Affairs at Princeton University. He is a former Army officer and a veteran of the first Gulf War.

## Art Professor Garners Creative Capital Award

Alumnus Richard Pell, an assistant professor of art, has been awarded a 2009 Creative Capital Award in the Emerging Fields category to support his Center for Post-Natural Studies. The center collects and exhibits genetically modified organisms created in various regions of the United States in an effort to advance the dialogue around genetic modification. Supported by the \$10,000 grant, the center will maintain a permanent exhibit in Pittsburgh. Pell joins Golan Levin, associate professor of electronic time-based art, and Grisha Coleman, a fellow in the Studio for Creative Inquiry, as recipients of the Creative Capital Award. Pell has exhibited his work internationally in such venues as the National Center for Contemporary Arts in Russia and the Israeli Center for Digital Art. He is a recipient of the Rockefeller New Media Fellowship and the Rhizome New Media Art Fellowship, among other honors.

## VanBriesen Wins Civil Engineering Society Award

Jeanne M. VanBriesen was named the 2008 Professor of the Year by the Pittsburgh Chapter of the American Society of Civil Engineers (ASCE).

"This is an extremely meaningful honor for me because it is given by professional peers who work daily to make the world a better and safer place for work and play," said VanBriesen, professor of civil and environmental engineering and director of WaterQUEST (Water Quality in Urban Environmental Systems), a Carnegie Mellon research center that studies urban water quality.

The award is presented annually by the ASCE Pittsburgh Chapter for outstanding teaching ability, significant contributions toward improving professional aspects of civil engineering education, integrity and community service.

## Funding Announced For Business Incubator

More than \$399,000 in federal funding was announced in support of a business incubator to be established in the new Buffalo Township Business Park in Butler County. The project will help connect Carnegie Mellon's strengths in interdisciplinary collaboration, research, new technology development and entrepreneurship with start-up businesses dealing with new and emerging technologies. The project is a partnership between the university, via the Donald H. Jones Center for Entrepreneurship at the Tepper School of Business, the Buffalo Township Board of Supervisors and Butler County Commissioners.

## Heinz College Plans Health Care IT Conference

The Indus Entrepreneurs (TIE) Pittsburgh Chapter will present "Innovation in Health Care IT" from 5:30 to 8 p.m. on Monday, May 18, at the Heinz College. Heinz College is uniquely positioned to innovate in the arena of Health-

care and IT because it combines one of the nation's leading Information Systems schools with top-ranked programs in Healthcare Policy and Management, Medical Management and Biotechnology and Management. Confirmed panelists include William Fera, director of Medical IT and Software Solutions, UPMC; Rich Schaeffer, chief information officer for St. Clair Hospital; and Joe Kuklis, co-founder, president and chief executive officer of GSP Consulting. Discussion will include opportunities and growth segments in health care IT. For more information or to register, visit [www.tiepg.org](http://www.tiepg.org).

## EH&S Wins Award

Environmental Health and Safety (EH&S) has received an award from the Campus Safety Health and Environmental Management Association. EH&S will use the award to expand its use of a SmartRadio system in the Mellon Institute. The emergency alert system uses text and voice messages to deliver emergency information to areas where communications may be difficult.

# GigaPan Used To Preserve Culture, Expand Research



SUBMITTED BY LAURA TOMOKIYO

LAURA TOMOKIYO WILL VISIT BARROW, ALASKA, SEVERAL TIMES THIS YEAR.

## ■ Byron Spice

The GigaPan system normally makes it easy to generate giant panoramas using everyday digital cameras, but Laura Tomokiyo, project scientist with the Robotics Institute, learned on the North Slope of Alaska that even GigaPan has its limits.

It seems the batteries powering the robotic camera mount are no match for the bitter cold of Alaska in March.

“You can’t be outside setting up a camera when it’s 50 degrees below zero,” Tomokiyo said following her visit to Barrow, Alaska. She found that the cold would sap the power from the batteries before the GigaPan could complete its photographic sweep of the horizon.

But Tomokiyo’s visit to America’s northernmost community nevertheless convinced her that GigaPan has a role to

play in documenting the culture and language of the native Inupiat people. That’s why she will make the 20-hour trip to Barrow again in June, when she will train members of the Inupiaq Heritage and Language Center (IHLC) to use GigaPan. The IHLC staff members can then take advantage of the warmer summer weather to gather images as they visit the isolated villages that dot the 94,700-square-mile North Slope.

“We hope this project will provide a good opportunity for youth and elders to work together,” she said. “The youth may provide leadership in the use of the technology, but they also will be looking to the elders to share their knowledge of history and tradition in the documentation of the panoramas.”

Tomokiyo, who earned her Ph.D.

in language technologies at Carnegie Mellon in 2001, made her March trip in hopes of finding ways that GigaPan panoramas could be used to study and preserve the endangered Inupiaq language.

Bilingual interpreters commonly are used to elicit lists of important words from native speakers, she noted, but that method tends to be biased by the dominant language. “Even if someone is bilingual, they will think about things differently when talking to English speakers,” she explained.

The use of GigaPan images, which allow users to zoom in on details, might eliminate this bias by allowing people who speak only Inupiaq to point out objects or activities of interest and name them. An example of such an image would be a GigaPan that Tomokiyo produced of workers preparing seal skins for use on a umiak, a large, seafaring canoe used for whaling.

Other scientific uses of GigaPan will be explored during the Fine Outreach For Science, a May 20-22 workshop at Carnegie Mellon sponsored by the Fine Foundation that will bring together paleontologists, geologists, climatologists, primatologists and other researchers from around the world.

The GigaPan system — a robotic camera mount that triggers the camera

to take numerous photographs of a scene and software that electronically stitches the images into a panorama — was created by the Global Connection Project to serve as a tool to help people communicate across cultures. Last year, for instance, the project launched the GigaPan School Exchange, in which students from schools in Pittsburgh, South Africa and Trinidad and Tobago shared GigaPans. This 21st Century “pen pal” program will be expanded this fall to include schools in Switzerland and Indonesia.

Broadband connections on the North Slope are poor, so the ability of students there to take full advantage of such an exchange would be difficult, Tomokiyo said. Even so, she is considering ways to make it happen, such as by timing the student use to coincide with periods of low Internet traffic. In the meantime the GigaPan archive can reside on computers on the North Slope, rather than be accessed over the Internet.

The archiving activity is being funded through the IHLC by a U.S. Department of Education’s Education through Cultural and Historical Organizations (ECHO) initiative. “We will return to Barrow at the time of the fall whaling season to wrap up, document cultural activities related to this event and explore possibilities for the next phase,” Tomokiyo said.

## TOMOKIYO’S GIGAPAN OF BARROW:

[WWW.GIGAPAN.ORG/VIEWGIGAPAN.PHP?ID=18957](http://WWW.GIGAPAN.ORG/VIEWGIGAPAN.PHP?ID=18957)

[WWW.GIGAPAN.ORG/VIEWGIGAPAN.PHP?ID=18857](http://WWW.GIGAPAN.ORG/VIEWGIGAPAN.PHP?ID=18857)

## Many Help Students Secure Prestigious Scholarships CONTINUED FROM PAGE ONE

provost for undergraduate education and director of the Fellowships and Scholarships Office. “Julia Spencer and I work with faculty and staff to match students with scholarships that build on their strengths.”

Dyanna Becker is Carnegie Mellon’s first sophomore to win the Morris K. Udall Scholarship, an award that recognizes students committed to the environment.

One of Becker’s challenges was describing her numerous sustainability efforts in the spaces allotted on the application. Her involvement ranges from serving on the executive board of Sustainable Earth to lobbying Congress during February’s PowerShift Conference in Washington, D.C.

Professors Cliff Davidson and Peter Madsen, Udall campus advisors, helped Becker develop and revise an application to highlight her talents and experience. Davidson said one of the most important ways faculty can assist students is to help them focus on the way they answer each question.

“When we read the detailed instructions for scholarship applications, those words probably mean more to us

than they do to students, simply because we have seen what works and what doesn’t work,” Davidson said. “Every sentence, every word a student writes must count.”

Becker’s undergraduate research experience made her an outstanding candidate. “Undergraduate research is a very important vehicle for students to explore a topic they are passionate about,” Davidson said.

Becker’s undergraduate research team, under the direction of CIT’s Mitchell Small, is developing a feasibility calculator for villages in eastern Africa to gauge the long-term social, economic and environmental impacts of producing biofuel from the jatropha, a plant indigenous to the region.

Amelia Nichols, Carnegie Mellon’s fifth Truman Scholar, appreciates the support she received. The university’s Truman Scholarship Committee included College of Humanities and Social Sciences faculty and staff members Scott Sandage, Marie Norman and Jay Devine, as well as past Truman recipient Gregg Behr, executive director of Pittsburgh’s Grable Foundation.

The committee reviewed application

materials and partnered with the Career Center to conduct mock interviews. Alumni and previous Truman recipients Terry Babcock-Lumish, Cameron Brown and Amy Cyphert shared their first-hand experience with Nichols and Truman finalists Tokeia Fitzgerald and Ashley Kilp.

Some of the advice was trans-Atlantic. Babcock-Lumish coached Nichols from her home in the United Kingdom via Skype. Prior to Nichols’ final interview in Oregon, Babcock-Lumish offered advice from “both sides of the table.” She received the Truman Scholarship in 1996 and has served on finalist interview panels in the United States and United Kingdom.

“Terry really redirected me,” Nichols said. “She helped me to focus on what it meant to go through the process rather than the outcome.”

“The experience of the application process, whether at the campus level or the national level, is one of careful consideration and discussion of one’s values, assumptions, motivations, abilities and future plans in a manner that is challenging and immensely valuable,” Babcock-Lumish said.

Faculty, staff and alumni interested

in nominating students for nationally competitive scholarships and fellowships or becoming a “coach” are encouraged to contact Wallach at [sw4s@andrew.cmu.edu](mailto:sw4s@andrew.cmu.edu) or visit [www.cmu.edu/fso](http://www.cmu.edu/fso) for more information.

### Scholarship Recipients

#### Goldwater

Timothy Helbig, Biological Sciences, junior

Swati Varshney, Chemistry, junior  
Carmeline Dsilva, Chemical Engineering, junior

#### Marshall

Sheela Ramesh, Psychology and Music, senior

#### SMART

(Science, Mathematics and Research for Transformation)

Jenae Pennie, Civil and Environmental Engineering, sophomore

#### Truman

Amelia Nichols, Psychology and Urban Studies/Education Policy, junior

#### Udall

Dyanna Becker, Civil and Environmental Engineering/Engineering and Public Policy, sophomore