



## Carnegie Mellon

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## CMU Named Green Power Leader by EPA

■ Jocelyn Duffy

For the first time, the university was one of only 10 organizations in the U.S. to receive a Green Power Leadership Award from the U.S. Environmental Protection Agency for its purchase of green power and its commitment and contribution to helping advance the development of the nation's green power market.

"We are honored to receive this award, and fully appreciate the positive role that universities such as ours can play by focusing both resources and research on renewable energy sources and new energy technologies. Energy

CONTINUED ON PAGE FOUR

## A Grand Party



PHOTO BY TIM KAULEN

UNIVERSITY LIBRARY STAFFER DAWN CALDWELL (LEFT) SETS THE TABLE FOR STUDENTS TO ENJOY 1,000 CUPCAKES TO CELEBRATE HUNT LIBRARY'S 50TH BIRTHDAY ON OCT. 27. MANY WROTE BIRTHDAY WISHES ON A BANNER OF APPRECIATION TO BE PRESENTED TO THE HUNT FOUNDATION ON SATURDAY, NOV. 20, WHEN PRESIDENT JARED L. COHON AND HIS WIFE, MAUREEN, WILL HOST A FORMAL CELEBRATION TO HONOR THE LIBRARY'S GOLDEN ANNIVERSARY YEAR. AT 7 P.M. THAT EVENING, THE FOUNDATION'S MOST RECENT GIFT OF NEW EXTERIOR LIGHTING, WHICH WAS DESIGNED BY PROFESSOR CINDY LIMAURO AND HER STUDENTS, WILL ILLUMINATE THE LIBRARY FAÇADE FOR THE FIRST TIME.

## Celebrating Stats



PHOTO BY KEN ANDREYO

Abby Flynt, a Ph.D. student in statistics, was among the many people celebrating World Statistics Day. Read more about the event on page three.

## Students Use Chemistry To Whip Up Culinary Creations

■ Jocelyn Duffy

One professor is taking chemistry to a tasty level.

In his seven-week mini course "The Kitchen Chemistry Sessions," Subha Das, an assistant professor of chemistry, teaches students about the chemical and biochemical concepts surrounding the major types of molecules found in food, like water, fats and oils, proteins, carbohydrates, and flavor and aroma molecules. They then turn to the kitchen to apply these concepts to cuisine.

"Food makes an excellent context for teaching chemistry and the fundamentals of the scientific process," Das said. "At the end of the course, I'm always amazed to see how much each student has learned."

For the final, students create dishes that are judged on taste and science. This fall, students prepared their dishes in the

kitchen of the East Liberty Waffle Shop, and went onstage and on-air (via YouTube) to present their culinary creations to a panel of celebrity judges.

The judges included: Robert Wolke, author of "What Einstein Told His Cook" and columnist for the Washington Post; Marlene Parrish, a food and travel reporter for the Pittsburgh Post-Gazette; Kevin Sousa, chef and owner of Pittsburgh restaurant Salt of the Earth; Jon Rubin,

Waffle Shop founder and assistant professor of art; Amy Burkert, vice provost of education; Marsha Lovett, associate director of the Eberly Center; and associate professors of chemistry Linda Peteanu and David Yaron.

"It was very exciting to have science in a public place," Das said.

"I was amazed at what they have done and what they have pulled off," Parrish added.

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# Q&A: Hayes Writes “One Project, One Poem, One Idea at a Time”

■ Shilo Raube

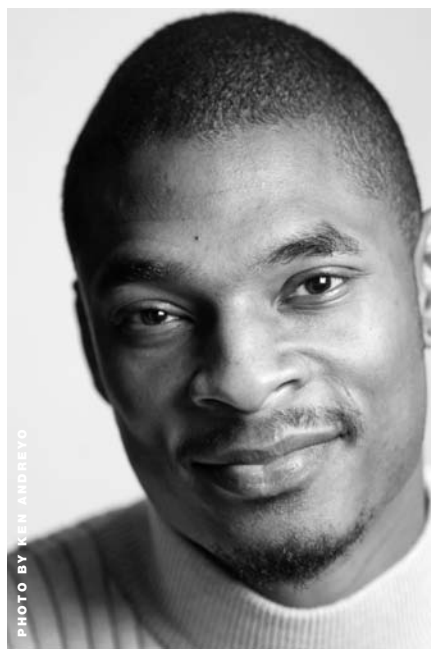
English Professor Terrance Hayes has been selected as a finalist for the 2010 National Book Awards for his latest book of poetry, “Lighthouse.” The winner will be announced on Wednesday, Nov. 17.

Hayes, who teaches in Carnegie Mellon’s Creative Writing Program, has published three other poetry books, “Wind in a Box,” “Hip Logic” and “Muscular Music.” His honors include two Pushcart Prizes, four “Best American Poetry” selections, a Whiting Writers Award, a National Endowment for the Arts Fellowship and a Guggenheim Fellowship, among others. The Piper sat down with Hayes to discuss his work.

## When you won the Guggenheim Fellowship in 2009, what did you do?

This past summer I took a trip to Japan and met people who created a Power-Point presentation form I adapted for my most recent book, “Lighthouse.” The form, called pecha kucha, uses 20 slides each shown for 20 seconds. The presenter sort of riffs or free associates as the images come up. I continue to use the form as a way of expanding my poems. What I like about adapting pecha kucha to a poem is I can be associative and focused at the same time.

The first successful one I wrote —



TERRANCE HAYES

it’s not the first one I attempted — is about a trip south to visit my biological father for the first time. There’s also a meditation on race in the South and on trees — which is somewhat bizarre.

## What was your inspiration for writing “Lighthouse?”

Many people think of poems in terms of inspiration. I think of them in terms of obsession and joyful work. I write poems every night in my office. They’re the result of routine, more than inspiration.

With “Lighthouse” I had been thinking about the imagination as a sort of lightheadedness and also of a “light head” as a head on fire. Fire is a source of warmth or passion, but it’s also a source for destruction. It illuminates, it

burns. This became a guiding principle for the book. It’s organized around positive and negative, internal and external images of fire.

## Which poem was selected for Best American Poetry 2010?

The poem is “I Just Want To Look,” but it isn’t in “Lighthouse.” In one sense it’s about a poet as witness or as bystander. I’d written this poem about going downtown to the courthouse to see an event.

The poem is this surreal moment where everybody in the audience is turned to the person who has come to witness and watch. It would be the same if a reporter showed up with a camera, and everybody pulled their cameras out and took pictures of the reporter. If the

## How does receiving all of the awards and recognition affect your writing?

I try to separate accolades from actual work. I’m not that interested in putting my finger on what it is that makes the poems appeal to other people. I just try to surprise myself and have a degree of integrity about my work.

But, I feel pretty lucky and I don’t take it for granted. There are many great poets who haven’t got the sort of attention I’ve received. It’s not always clear to me how that happens, but I’m aware of the good fortune of having people reading your work.

## What’s next for you and “Lighthouse?”

I have a few minor projects. I’ve been working on something for quite a few



**ONLINE: WATCH HAYES READ POETRY FROM “Lighthouse” AT [WWW.YOUTUBE.COM/WATCH?V=QsCzw06wAlM](http://WWW.YOUTUBE.COM/WATCH?V=QsCzw06wAlM).**

poet is busy looking and watching, how much is he really participating?

## Which poem is expected to be published in the New Yorker by the end of the year?

A poem called “New York Poem,” but it isn’t in “Lighthouse” either. That poem is in the spirit of Frank O’Hara, one of my favorite poets. Unlike “I Just Want To Look” which grows out of an idea, “New York Poem” is fairly grounded in a real experience.

years on the poet Etheridge Knight, which involves interviews and a little bit of prose. But I don’t know from one night to the next what my new project is going to be.

If I know going into my office what I want to do, it cuts that moment of surprise. Since “Lighthouse” came out in April, I’m still discovering what it really means and what it is. Sometimes it takes a few years before you really know what the book is doing. Sometimes I can sit down in an interview and hear myself saying things that I didn’t realize about the book.

So that’s mostly where I am. One project, one poem, one idea at a time.

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## Book Details African American Life In Pittsburgh After World War II

■ Shilo Raube

Pittsburgh hasn’t always been “America’s Most Livable City” for its African American population.

“Race and Renaissance: African Americans in Pittsburgh Since World War II,” a new book by history professors Joe W. Trotter and Jared N. Day, provides a detailed account of what life has been like for African American Pittsburghers since the end of the second World War.

“We wrote the book partly because of a lack of research on African Americans in Pittsburgh,” said Trotter, the Giant Eagle Professor of History and Social Justice and head of the Department of History. “It was designed to fill a gap in our understanding of this city’s history and to encourage new research on the subject.”

To uncover what life was truly like, Trotter and Day relied on news-

paper articles and first-hand accounts. They delved into how events and movements such as the second Great Migration, Jim Crow, civil rights and Million Man and Million Woman marches were experienced in Pittsburgh.

“Pittsburgh’s African American community has a history rich with achievement — but this achievement has often gone unrecognized,” said Day, an adjunct professor and research associate in the History Department. “Moreover, many of the key actors and organizations have seen their contributions almost disappear from the city’s collective memory. It’s essential that we remember not only people’s struggle for the basics of life but also their struggle for transforming the city — even when that transformation comes with maddening slowness and

without fanfare.”

For Trotter, one of the most surprising discoveries was the way that people dealt with what he refers to as “the persistence of the color line and the African American experience” in the city.

“It was interesting to see the distinct division between blacks and whites when it came to jobs, education and housing,” he said. “But, we were also able to demonstrate that African Americans developed a variety of strategies to counteract what we call discrimination in these various areas of life. Yet, at the same time, African Americans developed a set of white allies across the color line to move forward.”

“Race and Renaissance” was published by the University of Pittsburgh Press and is available on Amazon.com.



# FBI Deputizes Alice

## ANIMATION CONTEST HELPS YOUNG STUDENTS WARN PEERS ABOUT WEB DANGERS

■ Byron Spice

The FBI is getting help from young students creating short animated messages with Alice Project software.

Carnegie Mellon and the Federal Bureau of Investigation recently announced a national competition, in which students will share their knowledge about how to avoid dangers associated with Internet use by creating computer animations that promote safety concepts.

The animation competition is the latest component to the FBI's ongoing Safe Online Surfing (SOS) Program developed by the FBI's Cyber Division and Nova Southeastern University.

Middle and high school students will create 45-second animations using Alice, a software package developed and provided free of charge by CMU's School of Computer Science that enables even novices to make 3-D computer animations. The need to educate young people about hazards associated with Internet use has never been greater. Predators solicit one in seven children online, according to a recent study, and more than half are asked to send photographs of themselves.

"The Internet is a powerful resource for our youth, but it also presents opportunities for those who would attempt to do them harm," said Gordon M. Snow, assistant director of the FBI Cyber Division. "The Safe Online Surfing Program is designed to teach young people what they need to know to avoid falling victim to individuals who want to take advantage of their youth and innocence. Through this project, we hope to keep a generation of children safe online and tap into their creativity to promote their own protection."

The SOS program delivers critical Internet safety information to third-through eighth-grade students. More than 70,000 children in 41 states have completed the program, which fosters fun competition between local schools. SOS became one of the FBI's national initiatives in October 2009.

"The Internet offers great resources for learning and communication and we want to help children learn to use these resources safely," said Wanda Dann, associate teaching professor at Carnegie Mellon and director of the Alice Project. "In this collaboration, teachers and students will work together to learn safe surfing techniques. By using our Alice software to create 3-D animations, students can then use their imaginations and creativity to spread this message even further and perhaps even more effectively."

Students' entries should express one or more of the SOS program's safety



GORDON M. SNOW, ASSISTANT DIRECTOR OF THE FBI CYBER DIVISION, SAID THE ANIMATION CONTEST IS THE LATEST PIECE OF THE ONGOING SAFE ONLINE SURFING PROGRAM.

concepts. Submissions will be reviewed and the top entries will be posted on [www.fbi-sos.org](http://www.fbi-sos.org) for voting. The FBI will recognize the creators of winning entries and their teachers. Participating schools must register at [www.fbi-sos.org](http://www.fbi-sos.org) before Feb. 1, 2011. Animations are due by March 31, 2011, and may be sent to [www.fbi-sos.org](http://www.fbi-sos.org).

The Department of Homeland Security is seeking CMU students to create a 30- or 60-second public service announcement regarding cybersecurity. The winning entry will run on national TV. Interested students should contact [www.dhs.gov/files/events/stop-think-connect.shtm](http://www.dhs.gov/files/events/stop-think-connect.shtm).

## Stats Students Organize Human Histogram

■ Shilo Raube

It's never been so easy to make history.

In honor of the first-ever World Statistics Day, the Statistics Department's Undergraduate Student Advisory Committee led faculty, staff and students in creating a human histogram of heights on Oct. 20.

"We had the campus community come to the football field and report their height," said Emily Butler, a senior statistics major who led the effort. "Based on their height, they stood on different yard lines, one-by-one, so that we could see how many people were of what height."

With more than 150 participants, the heights ranged from 5'1" to 6'5". The histogram is multi-modal cor-

responding to the mixture of heights because of gender.

"World Statistics Day was a wonderful opportunity for us as a university to recognize the role statistics plays in

VISIT [HTTP://BIT.LY/CMUPIPER](http://bit.ly/CMUPIPER) TO SEE THE GIGAPAN, VIDEO AND MORE IMAGES FROM THE EVENT.

our lives," said Joel Greenhouse, professor of statistics and committee adviser. "Wherever there is data and an opportunity to learn from data, statistics plays a key role."

More than 150 undergraduate students are statistics majors. Rebecca Nugent, an assistant teaching professor who also advised the committee,

said, "Not only is statistics becoming an increasingly popular major at CMU, but students in many disciplines, including engineering, business and the sciences, are discovering the value of statistics

and statistical thinking."

According to Butler, the human histogram of heights was a huge success.

"We had a lot of participation and even had a GigaPan made so we could share our histogram with the world," she said.

As word spread about Carnegie Mellon's human histogram of heights, so did enthusiasm. The histogram's GigaPan was viewed more than 1,400 times in its first day online. The American Statistical Association and State of the USA organization included links to the GigaPan and media coverage on their websites. And, U.S. Census Director Robert Groves mentioned the CMU event in his World Statistics Day remarks.

"It was an amazing opportunity to bring the Carnegie Mellon community together to celebrate statistics and for students to see the concepts they've learned in actions," Butler said.



STATISTICS STUDENTS ORGANIZED A HUMAN HISTOGRAM TO SHOW THE DISTRIBUTION OF HEIGHTS AMONG 150 CAMPUS COMMUNITY MEMBERS.

## INI, WQED Team Up To Tout Cybersecurity

■ Chriss Swaney

The Information Networking Institute celebrated October as National Cybersecurity Awareness Month with a new partnership with WQED Multimedia to create educational materials about cybersecurity, which can be found at [www.securemycyberspace.com](http://www.securemycyberspace.com).

Dena Haritos Tsamitis, director of the INI, and director of education, training and outreach at Carnegie Mellon CyLab, said the new partnership unites the efforts of two education initiatives: CMU's MySecureCyberspace and WQED's iQ:smartmedia.

MySecureCyberspace was developed in 2005 in response to former President George W. Bush's national strategy to secure cyberspace. The Web portal helps the public understand the dangers of Web surfing and offers an encyclopedia of terms, articles and tools to combat cyberbullying, identity theft and the dangers of online predators. An interactive cyber-game, called Carnegie Cadets: The MySecureCyberspace, is designed to teach Internet safety and computer security to fourth-, fifth- and sixth-graders.

WQED's Education Department developed iQ:smartmedia, a strategy that addresses research, outreach, creative partnerships and online engagement.



# Students Sift Trash for Study

■ Heidi Opdyke

One man's trash is another's recyclable treasure.

Green Practices and the student group Sustainable Earth conducted a waste sort in early October to demonstrate how much of what goes into the garbage could be recycled.

Garbage bags were pulled at random from nine campus sites including Baker/Porter Hall, CFA, the Tepper School, the Hunt Library, Hamerschlag Hall, the FMS building, Mudge House, Donner House and the Fraternity Quad.

"Sorting through the trash is so revealing. With a little sleuthing we can determine if we need process improvements such as more bins, better placement, clearer labels, or a more effective education program or custodial training," said Barb Kviz, the university's environmental coordinator. "Quite a lot of food waste is found, which we hope to capture more of in the future."

Out of nearly 300 pounds of waste collected, 69 pounds of it were basic recyclable materials such as paper, bottles and cans. Additionally, 27 pounds of food could have been composted.

Students who assisted with the project included Green Practices intern Mike

Furman, Sustainable Earth President Dyanna Becker, Sara Mackenzie, Helen Chao, Morgan Midgett, Zahra Ahmad and Liting Chen.

Among some of the more interesting finds were milk jugs and hangars, both of which can be recycled. Many of the bags contained coffee grounds, which Kviz said could be composted.

"I find it so interesting that perfectly useful items end up in the trash, like milk crates, hangers, packing peanuts, screws, pens, pencils and money. We have always found money in every trash sort we have conducted," she said.

To help with campus recycling efforts, the Green Practices Committee established Green Teams in 2009. Green Teams are voluntary groups of faculty, students and staff in different departments that complete an environmental sustainability assessment to identify areas that need improvement and then take the steps to make changes.

Departments that already use Green Teams include the University Library System, the Tepper School of Business and the student group Net Impact, the Office of the Dean of Student Affairs, University Finance, Engineering and Public Policy and Counseling and



MORGAN MIDGETT (MCS'13) AND MIKE FURMAN (HSS'12) SORT REUSABLE AND RECYCLABLE ITEMS THAT WERE TOSSED INTO GARBAGE BINS.

Psychological Services. Staff Council recently established a Green Committee that aims to develop a comprehensive waste reduction program for staff.

Guidelines and checklists are available online at [www.cmu.edu/greenpractices/greening-the-campus/green-teams/index.html](http://www.cmu.edu/greenpractices/greening-the-campus/green-teams/index.html)

At CMU's Pittsburgh campus, the current recycling rate of basic materials is 16 percent. With additional process improvements and more conscientious

participation by campus community members, that rate could be raised, Kviz said.

To request a paper or bottles and cans recycling bin, or to learn where the nearest cardboard and hard to recycle (batteries, toner/ink cartridges, etc.) drop-off is located, contact Kviz at [bk11@andrew.cmu.edu](mailto:bk11@andrew.cmu.edu) or 412-268-7858.

Learn more about CMU recycling at [www.cmu.edu/greenpractices/](http://www.cmu.edu/greenpractices/).

## EPA Honors CMU

CONTINUED FROM PAGE ONE

and the environment represent one of Carnegie Mellon's strategic initiatives. Our students and faculty are committed to achieving sustainability and helping provide real world solutions to the world's environmental challenges through research, education and concrete actions," said CMU President Jared L. Cohon.

According to the EPA, green power is electricity that is generated from renewable resources such as wind, solar,

green-pricing program, a competitive green marketer, or a renewable energy certificate (REC) supplier. The university purchases nearly 87 million kilowatt-hours (kWh) of green power annually, which is enough green power to meet 75 percent of the university's purchased electricity use. Carnegie Mellon's current green power purchase is equivalent to avoiding the carbon dioxide (CO<sub>2</sub>) emissions of nearly 12,000 passenger vehicles per year,

or the amount of electricity needed to power nearly 8,000 average American homes annually.

Carnegie Mellon buys its renewable energy credits from Community Energy and Constellation NewEnergy and generates solar

power on-site for a campus office building on South Craig Street and the Robert L. Preger Intelligent Workplace, a living laboratory continually being updated to feature advanced systems, components and green materials.

This award further underscores Carnegie Mellon's commitment to sustainability. The university strives to educate its community about the challenges the world faces with increasing energy consumption and tackles these challenges through its

geothermal, biogas, biomass and low-impact hydropower. These resources generate electricity with a net zero increase in carbon dioxide emissions, while offering a superior environmental profile compared to traditional power generation sources. Green power purchases also support the development of new renewable energy generation sources nationwide.

EPA Green Power Partners distinguish themselves through purchases of green power from a utility



UNIVERSITY ENGINEER MARTIN ALTSCHUL ACCEPTED AN EPA GREEN POWER LEADERSHIP AWARD FROM ELIZABETH CRAIG, DEPUTY ADMINISTRATOR FOR THE OFFICE OF AIR AND RADIATION AT THE U.S. ENVIRONMENTAL PROTECTION AGENCY, DURING THE RENEWABLE ENERGY MARKETS CONFERENCE IN PORTLAND, ORE.

business practices and in its curriculum. For several years, Carnegie Mellon has made the study of environmental sciences and the deployment of sustainable practices a university-wide priority.

Carnegie Mellon buildings house several green roofs and the university is home to Stever House, the first green university dormitory in the United States. It has 10 LEED certified building projects and presented the first course in green chemistry. Research at the university seeks to find answers to some of the most pressing problems facing the environment through projects in a wide array of fields, including

carbon sequestration, green chemistry, alternative energy and sustainable design. Its Green Practices Committee was established to develop a comprehensive system of waste reduction and energy conservation.

Carnegie Mellon currently ranks second on the EPA's Top 20 College and University list of Green Power Partners. EPA updates its rankings quarterly at [www.epa.gov/greenpower/toplists/](http://www.epa.gov/greenpower/toplists/). Sierra Magazine also rated Carnegie Mellon one of its "Cool Schools" in 2007.

For more information visit: [www.cmu.edu/environment/](http://www.cmu.edu/environment/)

### CMU GETS A "B"

The Sustainable Endowments Institute recently gave Carnegie Mellon a B for overall sustainability efforts and As for its effort to reduce energy use, recycling and food composting, green building, student involvement and transportation. For complete details visit [www.greenreportcard.org/report-card-2011/schools/carnegie-mellon-university](http://www.greenreportcard.org/report-card-2011/schools/carnegie-mellon-university).



# 547 and Counting

## STUDENTS TALLY UP CMU'S FIRST ROBOT CENSUS IN PITTSBURGH AND BEYOND

■ Byron Spice

The folks at the Robotics Institute have done just about everything you could imagine with robots. They've sent them into volcanoes, "bottomless" sinkholes and abandoned mines; designed them to play games, guide visitors, deliver workers snacks, find life in barren deserts and tweet from the surface of the Moon.

Everything, it seems, but count them.

Heather Knight quickly realized this omission when the MIT grad arrived at the Robotics Institute this summer after two years at NASA's Jet Propulsion Lab. The Ph.D. candidate soon set about to correct the oversight with her own Robot Census.

"As much as we're here for the professors," she explained, speaking of her fellow grad students, "we're also here for the robots."

So she began distributing a whimsical, two-page census form inspired in part by this year's U.S. Census. It included instructions such as, "Do not count any robot living away either at a federal institution or in the Robot Armed Forces," and the reassurance that "your answers are protected by Asimov's Laws." For each robot, the form requested, among other things, a name, year of creation and degree of local (onboard) intelligence.

Getting the forms filled out and returned required a bit of footwork and friendly persuasion. In that effort, newcomer Knight received valuable help from more experienced hands, such as Ph.D. student Joydeep Biswas.

### Humans To Robots Ratio

As of mid-October, the count stood at 547 robots — just a bit fewer in num-

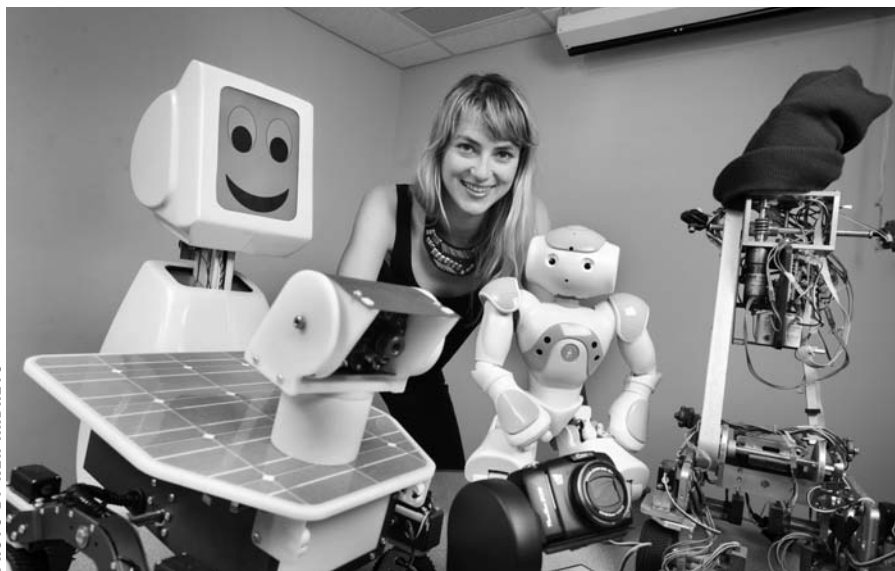


PHOTO BY KEN ANDREYO

HEATHER KNIGHT AND JUST A FEW OF CMU'S ROBOTS.

ber than all of the human faculty, staff and students in the institute.

"That's a lot of robots," said Matt Mason, Robotics Institute director. "I suppose I might have guessed 100 or 200, or something like that."

That number, however, could be found just in the labs of Manuela Veloso, professor of computer science. Veloso, head of the university's robot

When and why robots are given names or ascribed a gender is another area Knight would like to explore. In the meantime, she enjoys pondering some of the naming curiosities. For instance, all of the NavLab autonomous vehicles had male names: "Is it because they don't ask for directions?" she said with a laugh. One was nicknamed "Fidel," supposedly because it had intestinal

### "THAT'S A LOT OF ROBOTS," SAID MATT MASON, ROBOTICS INSTITUTE DIRECTOR COMMENTING ON THE 547 ROBOTS FOUND SO FAR.

soccer teams, has more robots than anyone else in the census — 116.

Knight is looking forward to analyzing the data and plans to use the on-campus data as a final project for her math fundamentals for robotics course. She is interested in such questions as whether field robots have different design paradigms than medical robots and what levels of intelligence and interaction capabilities correspond to applications or to human-robot interaction.

problems.

Roboceptionist, which greets visitors at the third-floor lobby of Newell-Simon Hall, is publicly multi-gendered, having spent years as "Valerie" before being re-imagined as the decidedly male "Tank." Knight was intrigued by the Trestle, an experiment in the Newell-Simon Highbay that involves different types and sizes of robots working together on construction projects. "It sounds like something out of a cartoon,



ONLINE: [HTTP://ROBOTCENSUS.ORG](http://robotcensus.org)

like Rocky and Bullwinkle," she said.

Despite the best efforts of Knight and her friends, many robots remain uncounted. The National Robotics Engineering Center in Lawrenceville, home of the Crusher unmanned ground vehicle and the Dante II volcano-explorer, failed to return a single form. This problem of omissions is one that the Robot Census shares with the U.S. Census, noted Steve Fienberg, professor of statistics and social science, and a census expert.

"But robots aren't people," Fienberg observed. "Fortunately, we don't anticipate that a subgroup of robots will get together and organize a census boycott!"

The Robot Census continues to fire imaginations of enthusiasts around the world as Knight has made the census forms available online, [www.robotcensus.org](http://www.robotcensus.org). Features by Popular Science, MIT Technology Review, Engadget, CNET, PC World and AOL News, among other online news sites, as well as its own Twitter feed, @robotcensus, have given legs to the Robot Census story. Knight distributed copies of the census at the MakerFaire do-it-yourself technology festival in New York (count: 136 robots) and is looking for volunteers to adopt the Robot Census on other campuses.

It all has resulted in a quite a bit of Internet traffic. "At one point," she said, "I even heard from an ex-boyfriend in Hamburg, Germany, who saw an article in the local newspaper. He posted it on my wall on Facebook and, shortly thereafter, my first submissions from Germany arrived."

## Culinary Students Use Chemistry To Whip Up Culinary Creations

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A universal favorite among the judges was a dessert sushi. Students blended strawberries into a liquid, which they then turned into a paste using a tasteless tapioca starch called ultratex. They spread the paste into sheets and let them dry before using them as the base of the sushi roll, similar to how seaweed traditionally is used. The rolls were filled with sweetened cous cous, caramelized slices of peach and chocolate mousse made using techniques they learned in class. The rolls were accompanied by a wasabi-looking sweet green tea mousse, chocolate syrup that looked like soy sauce and slices of crystallized ginger.

In what Parrish called a "very gutsy" move, another team made a Gruyere soufflé, accompanied by freshly baked bread. A typical soufflé is made light and fluffy by beating egg whites and trapping air

in the whites, creating a foam. With time and heat, the air leaks out of the soufflé causing it to fall.

Students made their egg white foam more stable by whipping the egg whites in a copper bowl. The technique causes the bowl to lend a few atoms to the egg whites, which stabilizes the protein network that traps the air to keep the soufflé airy.

"It was great to see the students present such a wide variety of dishes. The soufflé was a traditional dish and the sushi was a creative reinterpretation," Das said. "Our judges said they thought either could be on a restaurant's menu. Most gratifying though was that not only could the students display their learning in a creative way but they were also able to explain the science behind their dishes."



PHOTO BY AMY PAVLAK

BRANDON DZIRKO PUTS THE FINISHING TOUCHES ON A PLATE WITH A SUNNY SIDE UP "EGG" MADE OF COCONUT MILK AND LIQUID MANGO.



# Andy Awards Honor Staff for their Impact

Staff members were recognized for their outstanding efforts at the 2010 Andy Awards in October. The annual awards honor individual staff members and teams whose outstanding performance and commitment to excellence have had a significant impact on the university. President Jared L. Cohon and Executive Vice President and Provost Mark S. Kamlet announced the 2010 Andy Award winners before a standing-room only crowd in McConomy Auditorium.

And the winners are:

## James A. Mercolini, Dedication



James A. Mercolini of the Office of the General Counsel was recognized for dedication. Brenda Peyser, associate dean of the Heinz College who nominated Mercolini, said he spends his time anticipating, preventing and solving problems.

“Jim loves his job and he loves Carnegie Mellon,” Peyser said. “He is a consummate professional whose dedication shows every day in the hours he puts in, the quality of his work and the affection he has for his colleagues around the campus.”

“Jim’s breadth of knowledge is remarkable, even more so because of the extent to which he has expanded it since he came to the university,” said Mary Jo Dively, vice president and General Counsel, in a supporting letter. “When he got here, he was an outstanding litigator and employment lawyer. Today, I consider him an expert in most areas of higher education law, as well as in the many international laws, which apply to our operations abroad. He has gained this knowledge through a deliberate program to teach himself all areas of the law that he feels he needs to know to do his job. At an institution which embodies lifelong learning, Jim is one of our greatest students.”

## Mike Danko, Commitment to Students



Mike Danko, Naval ROTC coordinator, was nominated by Gregory Billy, commanding officer and professor of naval science. Billy said Danko is always willing to go the extra mile to meet the needs of more than 100 ROTC undergraduate students, ROTC candidates and their parents.

“Student-focused, he actively cultivates relationships with other campus organizations such as Alumni Relations, FMS, CMU Police, the HUB, University Services and the Athletic Department to ensure NROTC students receive needed support while verifying they maintain the highest standards as good stewards and citizens on campus,” Billy wrote.

A retired U.S. Army Master Sergeant, Danko’s personal example inspires students to be better citizens on campus, in the community and in the classroom, he said.

In a supporting letter, Joseph Grant, associate professor of naval science, said that Danko is the epitome of professionalism and decorum. “His positive and upbeat attitude in addressing student concerns, questions, and those of parents is inspirational. When talking with prospective CMU students and parents, he willingly goes above and beyond to ensure their questions and concerns are answered.”

## Electronic Health Records System Team, Innovation



The Electronic Health Records System team of Scott Ambrose, Nick Bertovich, Mary Ann Blair, Matt Blazeovich, Kyle Carson, Joe Corey, Attila Csokai, Thomas Dugas, Marc Gabriele, Daryl Hollinger, Dan Kennedy, Joseph Kern, Shushan Klein, Doug Markiewicz, Randy Monroe, Chris Nolin, Bill O’Malley, Stephen Rhoton, Brian Richards, David Riel, Chris Ries, Joe Sciulli, Laura Walsh and Kevin Westling was nominated by Anita Barkin, director of Student Health Services, with supporting letters from Lori Smith and Mick Landaiche.

Under the leadership of Dugas and Nolin, the multi-departmental team worked on a highly sophisticated electronic medical record system for Student Health and Counseling and Psychological Services from fall 2009 to spring 2010.

“Throughout this process, the team faced significant challenges involving security, system interfaces and meeting the needs of two client groups. As the director of health services, I was highly dependent upon this team to find the creative solutions that would meet HIPAA, clinical and business requirements,” Barkin wrote.

Because of its attention to detail, the team brought security and system problems to the attention of the vendor that ended up making the system more secure, not only for CMU but also for more than 200 schools that are served by Point n’Click. Nearly every clinic process was streamlined and improved through the upgrade, and student customers can now view and update their medical profile and history electronically, which reduces the amount of time spent on data entry and appointment scheduling as well as cutting down on the amount of errors in documentation and medical records.

## Mary L. Pretz-Lawson, Culture



Mary L. Pretz-Lawson, head of the Planning and Project Management Office (PPMO) within Computing Services, was recognized for creating a positive work environment.

“Both the little and the big things that she does makes it possible for me to live up to my full potential,” wrote Kelley Anderson, a project manager, in her nomination letter.

Additional supporters recognized Pretz-Lawson for the caring, supportive and professional working environment she has built. She makes it a point to be aware of her team members’ work/life balance and actively works to provide opportunities for them to help them meet their career and personal goals.

“Mary L. cares deeply about those she works with, and her community, and it shows,” wrote Karen Van Dusen, PPMO assistant director. “[She] listens carefully to her team’s long-term professional goals and encourages taking on work that will stretch current skills, supporting and mitigating the risks we take on when trying new approaches. She also models the importance of personal development through her own steadfast determination to improve herself through leadership training and peer coaching. She even shares her goals with us so that we can support her in her own improvement.”

## Carole M. Panno, University Citizenship

Carole Panno (HSS’90, HNZ’91), senior associate director of Annual Giving, was nominated by Niccole Atwell, Julie Buffington, Michael Haas, Katie Lambrou and Walt Schratz, all of University Advancement. As a group, they recognized Panno’s devotion to the CMU community for close to 20 years.

“Carole’s longtime dedication and loyalty to Carnegie Mellon University is an inspiration. In addition to her official position within Annual Giving, Carole



is deeply involved with the campus community, serving as a University Advancement divisional representative for Staff Council and co-chair of the university’s Annual Food Drive, one of the most successful food drives in the city of Pittsburgh. This past year, over

a two-week time period, the drive collected 7,896 pounds of food and \$1,702.10,” they wrote.

“Also an alumna, Carole ‘bleeds’ plaid, and shows her loyalty and commitment to Carnegie Mellon through volunteering for her class reunion committees and by volunteering her time to staff major alumni weekends, all weekend long, such as Homecoming and Spring Carnival,” wrote Lynn DeFabio, an Alumni Relations staff member, in a supporting letter. “She can always be counted on and is the first to raise her hand when a colleague needs help.”

“Carole is always the person sitting by the lamp light working away while the rest of us head home at night,” wrote Sarah McMullen of Alumni Relations. “She is diligent and always there with a hug and a smile when you need someone to lean on. She’s family to this campus, the alumni, her colleagues and all that is CMU.”

Prior to presenting the awards, President Cohon paid tribute to Outstanding Culture nominee Pat Kleyle, a 20-year member of Enrollment Services who passed away just days before the ceremony. Kleyle was nominated for the positive atmosphere she created in Enrollment Services and for her commitment to self-growth and learning. Cohon announced that Enrollment Services has established the Pat Kleyle Staff Recognition Award to recognize staff members who share her professionalism, devotion to service, dedication to CMU and passion for lifelong learning and development.

# Anderegg Tops This Year's Service Award Recipients With 45 Years

■ Bruce Gerson

Carnegie Mellon is a safer place having Robert Anderegg around. For Anderegg, who was honored by Staff Council for his 45 years of service to the university at last month's Andy Awards Ceremony, safety has always come first.

After patrolling the Great Lakes as a member of the U.S. Coast Guard's Search and Rescue Team, he joined Carnegie Tech in 1965 as a design student by day and campus police officer by night. "My instructors would be surprised to see me at night in a police uniform," said Anderegg, who also served as a fire instructor and EMT on campus during his early days.

While still on the force as a shift commander, he became Coordinator of Safety and Security, a role that transferred him into Facilities Management Services and later the Design and Construction Department.

"I got involved in asbestos monitoring and abatement, and as time progressed I became involved in lab safety and actually began the lab waste management program for the university," he said.

In the '80s the university's Federal Compliance and Safety Office — the forerunner to today's Environmental Health & Safety (EH&S) Department —



ROBERT ANDEREGG

PHOTO BY KEN ANDREYO

came calling and Anderegg responded. "My position kept evolving," he said.

Today, Anderegg is a senior facilities safety analyst and fire safety specialist for EH&S. He conducts various fire safety-training sessions for many departments and developed evacuation plans for every campus building. He's also established safety guidelines for students to follow as they build Spring Carnival booths and other temporary structures. He conducts safety inspections of such structures and of Sweepstakes (Buggy)

preparation trucks and enclosures. Many years ago, students dubbed him with the name "Fire Marshal Bob," a nickname that has held to this day.

Anderegg, who says he's not ready for retirement yet, looks back on his CMU career fondly.

"Everett Tademy, a thirty-five year award recipient, once described me pretty well. He said I was in love with the university and he couldn't have been more on the mark. We've got some great people here," Anderegg said.

## SERVICE AWARDS

Thirty-five individuals received framed certificates from Staff Council for 30, 35, 40 and 45 years of service to CMU at the Andy Awards Ceremony last month. Here's a list of those honored.

### 30 Years

Sally Adler, Biological Sciences  
 Donald Bennett, NMR Center  
 Chris Bowman, Electrical & Computer Engineering (ECE)  
 Cynthia Davis, Biological Sciences  
 Jacqueline Defazio, Philosophy  
 James Dillinger, Mechanical Engineering  
 Eileen Eicheldinger, Software Engineering Institute (SEI)  
 Elizabeth Fox, College of Fine Arts  
 Jean Harpley, Robotics  
 Karen Hornak, Carnegie Mellon Card  
 Ivan Howard, University Police  
 Louise Krowitz, Enrollment Services  
 Robert Kubiak, SEI

Ai-Chi Liu, University Libraries  
 Judith Mancuso, Career Center  
 Barbara Mattis, SEI  
 Dale Moore, School of Computer Science  
 Phyllis Poznik, Biological Sciences  
 Elizabeth Prelich-Knight, ECE  
 Daniel Schulz, Facilities Management Services (FMS)  
 Margaret Smykla, Statistics  
 Valerie Thompson, Materials Science & Engineering  
 Lorraine Underwood, University Police  
 David Wessell, FMS  
 Barbara-Jane White, SEI  
 Gary Wilkin, Physics  
 Michael Zuccher, SEI

### 35 Years

John Koerbel, FMS  
 Donna Morosky, Athletics  
 Everett Tademy, Human Resources  
 James Walker, FMS

### 40 Years

Stella Andreoletti, Mathematical Sciences  
 William Elliott, President's Office  
 Kenneth Stupak, SEI

### 45 Years

Robert Anderegg, Environmental Health & Safety

# Greenaway Goes Out on a High Note

## AFTER 26 MAJOR PROJECTS CMU'S DIRECTOR OF CONSTRUCTION RETIRES

■ Bruce Gerson

Carnegie Mellon's Pittsburgh campus could easily be called the house that Joe built. That Joe would be Joe Greenaway, director of construction for Campus Design and Facility Development, who after 42 years of managing 26 major construction projects and countless others has decided to hang up his hard hat.

The list of projects Greenaway has managed reads like the campus map. There's the Physical Plant building; the East Campus Project, which includes the West Wing and Resnik residence halls, Gesling Stadium, the intramural field and the parking garage; the tennis courts; the Pittsburgh Technology Center on Second Avenue; the University Center; Posner Hall and Posner Center; Roberts Hall; the Purnell Center for the Arts; Doherty Hall phases 1 and 2; and the Gates and Hillman centers.

The completion of the Gates and Hillman centers gave him the opportunity to retire on a high note, he says. For him it was like winning the Super Bowl.

"The Gates Hillman Center was one of the most complicated projects in Carnegie Mellon's history. I don't know that I could've gone out with a more spectacular project," Greenaway said.

Greenaway began his career at CMU's maintenance department in October 1968 and soon established what



JOE GREENAWAY

PHOTO BY KEN ANDREYO

was then known as the Facilities Management Services Control Center. He became superintendent of the maintenance foremen, running the carpentry, painting, grounds and vehicle maintenance crews.

In the early 1970s, cutbacks diminished his workforce, but not his productivity. Greenaway recalls the time he and a few of his crewmembers purchased parts from a scrap yard and built a couple maintenance vehicles from scratch to help service the university.

Greenaway became involved in the Wean Hall building project during the '70s, and his focus turned from maintenance to construction. "I moved over into the construction department, which was very minimal at the time. I just kept

it growing," he said.

And as the campus kept growing, so did the admiration for Greenaway.

"Universally people respected him," said Ralph Horgan, associate vice provost for Campus Design and Facility Development.

"People think of Joe as a hard-bitten, mud on his boots, construction guy . . . [but] what people don't know is his wisdom, his judge of character. He's very smart, very wise and a very good judge of human beings," Horgan said.

Horgan praises Greenaway for his knowledge of the business, his concern for safety and quality, and his "ability to laugh through all the stress" from demanding time schedules.

"That inside baseball construction knowledge of what's quality and what's not, that lay people would never understand or comprehend, Joe embedded that in all the construction projects he worked on. That value is there in these buildings, so that they will be here 100 years from now. . . . Joe set the bar for this group," Horgan said.

On his last day in the office, Greenaway's crew of project managers spoke about his impact.

"Joe has been my model, and that's probably why I'm still here," said Ed Hydzik, a 26-year veteran at CMU. "We're always between a rock and a

hard place with the projects we have — it's the nature of what we do — and to have Joe there to talk to about these situations was great. We're really going to miss him."

Max Dorosa, a 12-year member of the staff, said "It was good to have somebody with his experience and knowledge to bounce ideas off of."

Project Manager Andrew Reilly said Greenaway had a knack for being able to listen to all the designers and contractors and be able to sum things up quickly.

Janice Held called his support and guidance with all construction matters "incredible."

Adam Homer, the youngest of the project managers, said he learned something daily from his mentor. "There was a lot to take away every day," he said.

Like the proverbial plumber with leaky faucets, Greenaway has many retirement projects on his list, including some home repairs. He said he'll also continue to teach himself the guitar and hopes to learn a new foreign language.

"It's been an amazing ride," said Greenaway, who said he'll miss the challenge of the next project. "We had a retirement party and I was absolutely astounded at the turnout. It made me realize how much I've touched everybody in some way and every building on this campus in some way, and I'm very, very, proud of that."



# Homecoming Happenings



PHOTOS BY KEN ANDREYO



PHOTOS BY KEN ANDREYO



PHOTOS BY GLENN BROOKES

STARTING AT TOP: MEMBERS OF THE KILTIE BAND GRAB A BITE TO EAT FROM THE CARNEGIE CLAN'S CHILI COOK-OFF BEFORE PERFORMING THEIR ANNUAL HALF-TIME SCATTER SHOW.

CMU'S MASCOT SCOTTY HIGH FIVES JULIA O'BRIEN AS HER MOM, DEAN OF STUDENTS GINA CASALEGNO, AND BROTHER THOMAS O'BRIEN LOOK ON IN WIEGAND GYM, WHERE THE KIDZONE ACTIVITY FAIR, HIGHLAND GAMES AND THE CARNEGIE CLAN'S CHILI COOK-OFF OCCURRED.

NAOKO MATSUBARA (A'62) (LEFT) AND GELA NASH-TAYLOR (A'78) WON DISTINGUISHED ACHIEVEMENT AND ALUMNI ACHIEVEMENT AWARDS, RESPECTIVELY, THIS YEAR.

# Trustee Brings Show Biz to Qatar

## SHE TELLS STUDENTS HOLLYWOOD, LIKE CMU, COMBINES ART, TECHNOLOGY AND BUSINESS

■ Andrea L. Zrimsek

Carnegie Mellon Qatar got a taste of Hollywood.

Film producer Paula Wagner, a CMU alumna and trustee who produced blockbuster hits, and her husband, Hollywood agent Rick Nicita, toured the campus in Doha and spoke to students while visiting Qatar to serve on jury panels at the recent Doha Tribeca Film Festival.

"What struck me the most was to see a Carnegie Mellon trustee who actually does this kind of work," said Omina Khalid, a senior business administration major who led the Hollywood couple and their hosts Dean Dick Tucker and his wife, Rae, on a campus tour that ended in a community-wide reception. "It's great to see a graduate famous for something other than computer science or robotics. Paula is a graduate, an artist and an entrepreneur."

Khalid and her fellow students were surprised to learn that during her years as a Hollywood agent, Wagner represented Matthew Broderick in the film "Ferris Bueller's Day Off," Sean Penn in "Fast Times at Ridgemont High" and Demi Moore in "Ghost."

Wagner also put together "Born on the Fourth of July" and "Rainman," and produced "The Last Samurai" and the "Mission Impossible" series.

Wagner spoke to students about the rare opportunity they have to earn a Carnegie Mellon degree at the state-of-the-art campus in Doha.

"Education is very dear to my heart because education is one of the most critical components of what will bring our world together. It's the thing that opens our hearts and minds to transcend



PAULA WAGNER

the cultural divide. The things that bring people together are education and higher learning. This campus is a near perfect environment for learning," Wagner said.

After graduating from Carnegie Mellon, Wagner set out for a career as a stage actress. From there she went on to be a successful businesswoman, learning the complicated film business as she went. Though she never studied computer science, Wagner spoke about how the film business is now a convergence of art, technology and business, much like Carnegie Mellon.

"Technology is now driving the arts forward: movies are in 3-D and there is now digital distribution of films. Carnegie Mellon has always been on the cutting edge of invention. In a world full of convergence, there is no better place in the world to learn that than Carnegie Mellon."

## A Conversation with Steve Forbes

Steve Forbes, chairman and CEO of Forbes Media, told a full house in Rashid Auditorium on Nov. 5 that the midterm election results are a signal that Americans are examining the role of the U.S. government today. "Americans were profoundly disturbed by the government's binge spending," he said, citing health care reform and financial reform legislation as examples. He added that if the government had done nothing in response to the financial crisis, the country would be experiencing a stronger economic recovery.

A widely respected economic prognosticator, author and winner of several prestigious awards, Forbes made his comments during a Q&A session moderated by Carnegie Mellon President Jared L. Cohon. Forbes also took questions from the audience on a variety of matters, including U.S. monetary policy, fixing health care and the 2012 elections. The event was hosted by the Center for International Relations and Politics, the Humanities Scholars Program and Heinz College.

CMU PRESIDENT JARED L. COHON AND STEVE FORBES, CHAIRMAN AND CEO OF FORBES MEDIA, DURING THE NOV. 5 EVENT.



PHOTO BY KEN ANDREYO



## LECTURE SPOTLIGHT: HUMANITIES LECTURE SERIES FOCUSES ON IMMIGRATION, CONFLICTING IDENTITIES

■ Heidi Opdyke

With immigration in the media spotlight, Carnegie Mellon's Humanities Center Lecture Series is bringing attention to some of the issues being discussed by state and federal policymakers.

"Identities in Conflict: The Recognition of Migrants" was selected as the theme two years ago, said David Shumway, a professor of English and the center's director.

"We had a theme on migration and identity in the 2005-2006 academic year that was primarily historically based. For this year, we decided to approach contemporary migration by comparing the way migrants are recognized in Europe with the way they are recognized in the United States," he said.

Already this year, Leo Chavez, a professor of anthropology at the University of California, Irvine, discussed his research into various issues related to transnational migration, including immigrant families and households, labor market participation, motivations for migration, the use of medical services, and media uses of "immigrants" and "nation." Earlier this month, George Yudice, professor of modern languages at the University of Miami, focused on migration and cultural policy.

Several threads tie the talks together, and Shumway said the first talks drew a broad audience because of the recent attention on immigration.

**WHAT:** "HOW EXCEPTIONAL IS NEW YORK AS AN IMMIGRANT CITY?"

**WHEN:** 4:30 P.M., TUESDAY, NOV. 30

**WHERE:** ADAMSON WING, 136A BAKER HALL

**ONLINE:** WWW.HSS.CMU.EDU/HUMANITIESCENTER/

"Humans have always moved," Shumway said. "The idea that a particular nation population is ever completely static or stable, is simply either complete fiction or something that happens so unusually that it might as well be. All nations have to accommodate movement in and out of them, and we want people to think about good and bad ways of doing that."

The next lecturer in the series is Nancy Foner of City University of New York, who will discuss "How Exceptional is New York as an Immigrant City?" at 4:30 p.m., Tuesday, Nov. 30, in the Adamson Wing, 136A Baker Hall.

"Foner is a very eminent scholar in this area. She's really one of the Americans most well known for studying the social situation or context for immigrants in the United States. Her talk will be about New York City as an unusual space in the United States. It's a place where because of its long history of continuous immigration and very great diversity, it's an exceptional place," he said.

Another theme is the question of conflicting identities.

"Our view is that migration doesn't just affect the identities of the migrants,

it also has an impact on the members of the host country. So for example, one might argue one of the reasons why some Americans are hostile to immigration or to migrants is that they feel their own national identity to be threatened by people with different identities coming into the country," he said.

"And I guess we want to get people to think about identity in a way that would be more flexible and accommodating. Part of American's national identity has been tied up in the sense that we are a nation of immigrants and yet that idea doesn't seem necessarily to make people continue to welcome newcomers. Newcomers themselves seldom move in a sense that they will remain the same after they have changed countries. Most migrants seek to become part of the new culture that they enter so they in fact adopt a new identity."

In the spring, the Carnegie Mellon 2011 International Film festival will further explore the theme with films that show "The Faces of Migration." Film screenings will take place in community cinemas and art galleries.

## UPCOMING EVENTS

Spring lectures in the series include the following events. Check [www.cmu.edu/humanities](http://www.cmu.edu/humanities) for locations and updated information:

**Riva Kastoryano**, director of research at France's Centre National de la Recherche Scientifique, will deliver a talk. 4:30 p.m., Tuesday, Jan. 25

**Paul John Eaken**, the Ruth N. Halls Professor Emeritus of English at Indiana University, will deliver a talk titled "When We Say 'I': Identity, Memory, Narrative." 4:30 p.m., Tuesday, Feb. 15

**Mieke Bal**, Royal Netherlands Academy of Arts and Science Professor at the University of Amsterdam, will present a talk titled "Thousand and One Voices." 4:30 p.m., Tuesday, March 1  
Bal also will preview "Separations," a film she co-directed, on Wednesday, March 2, as part of the International Film Festival.

**Jennifer Gully**, Carnegie Mellon Humanities Center Fellow, will speak. 4:30 p.m., Tuesday, March 22

**Ali Behdad**, professor and chair of the Department of English at UCLA, will lecture on "Moslem Immigrants, Inhospitable Europeans." 4:30 p.m., Thursday, April 7

## Conductor Hands Composing Student Deal of a Lifetime

■ Kristi Ries

Few aspiring musicians catch a break like this.

A handshake deal on stage at Heinz Hall led to the premiere of a three-minute work by Robert Randazzo (BFA'12) for the PSO Pops — all because he struck up a conversation with principal pops conductor and renowned composer Marvin Hamlisch.

Randazzo, who met Hamlisch while singing as part of the All-Star Choir, dutifully worked on the new piece with guidance from Nancy Galbraith, professor of composition.

Most young composers would view working on one's first commission for a professional orchestra as an admittedly intimidating charge. However, the Brooklyn native was up to the challenge with a great mentor.

"My professor gave me excellent guidance; she told me to write what came naturally to me," Randazzo said.

With a blueprint in his head, he worked on the piece, which he describes as lighthearted and fun, throughout the summer.

And Hamlisch kept his end of the deal: the PSO Pops premiered Randazzo's composition "Lydian Portals" in a weekend of concerts in early October.

CMU Artist Lecturer Cynthia Koledo DeAlmeida, the PSO's principal oboist, was particularly impressed by the young composer's work.

"I was very excited to play a piece by one of our own students at CMU. Robert really did a wonderful job writing it; he incorporated all of the orchestra's sections very well," DeAlmeida said. "It reminded me of celebrated film composer John Williams; it was a very exciting piece, and one that could certainly be played by many professional orchestras across the country."

Randazzo was introduced onstage just prior to the premiere.

"It was so thrilling — it felt like a place where I truly belong," he said. "It was very special to have my whole family and all my friends there."

Hear more of Robert Randazzo's original compositions at his junior recital at 8 p.m., Saturday, April 23, 2011, in the College of Fine Arts' Alumni Concert Hall.



ROBERT RANDAZZO (BFA'12) GREETPS PSO POPS CONDUCTOR MARVIN HAMLISCH DURING THE PREMIERE OF RANDAZZO'S WORK "LYDIAN PORTALS."

PHOTO © 2010, SHELLY FUERTE — PITTSBURGH SYMPHONY ORCHESTRA



# Fishing Club Tackles Regional Tournament

■ Abby Houck

Paul Kimball Jr. (CIT'12) and Ryan Buckheit (HSS'11) know that the early bird catches the worm — or in this case, the fish. As founders of the Carnegie Mellon Fishing Club and competitors in FLW Outdoor College Fishing tournaments, they know 4:30 a.m. starts are all about the hooks, lines and sinkers.

FLW, named after Ranger Boats founder Forrest L. Wood, initiated the tournaments as a way to inspire a new generation of bass fishing enthusiasts. Kevin Hunt, the tournament's director, reports interest in the sport among college students has been explosive.

"When we began planning the tournaments in May 2008, we had 91 teams signed up," Hunt said. "Now we have

than tournament rules. Each student may weigh in three live bass, and winners are determined by calculating the combined weight of both anglers' fish.

In September, the duo won second place in a tournament on Lake Erie that included 40 teams. In addition to winning \$2,500 in prize money for the team and a \$2,500 donation for the university, they secured a spot at this month's Northern Regional Championship on Lake Jordan in Raleigh, N.C. Regional and national tournaments are broadcast nationally on Versus.

Hunt said college tournaments start the same day as the final round of a professional tournament. Anglers who



RYAN BUCKHEIT (HSS'11) AND PAUL KIMBALL JR. (CIT'12) QUALIFIED FOR THE NORTHERN REGIONAL CHAMPIONSHIP THIS MONTH.



VISIT [HTTP://BIT.LY/CMUPIPER](http://bit.ly/CMUpiper) TO WATCH A VIDEO FEATURING THE CARNEGIE MELLON FISHING CLUB TEAM.

412 teams."

Kimball and Buckheit have competed in three tournaments since early 2009. Kimball, a junior mechanical engineering major, has participated in the FLW Stren Series tournaments as a co-angler with his father since age 16. When the organization announced the college series, he talked Buckheit, a senior majoring in information systems and computer science, into competing.

Tournaments begin at sunrise and last at least six hours.

"We choose where we want to go, how long we stay there," Kimball said. "We run the boat's trolling motor, catch the fish and hopefully go to the weigh-in at the end."

Teams include two students, who are each permitted to catch up to five bass at least 12 inches long. Lake or state limits prevail if they are more stringent

do not place in the top 10 provide boats for the students. While the pros receive compensation, most are excited to serve as mentors and give back to the sport.

"Many of the pros say they wish they had the opportunity to participate in tournaments when they were younger," Hunt said.

Buckheit and Kimball recognize that success in the sport comes from a combination of skill and a bit of luck.

"Unless both people on your team are on board, it's hard to get much done," Buckheit said. "One person has to be in charge of where you're going. You both have to be trying different things."

Sponsorships make the tournaments accessible to college students on a limited budget. Participants are responsible for bringing their own life vests, fishing poles and bait. FLW works with the title sponsor, the National Guard, and others

to provide travel allowances, free hotel rooms and boats.

Back on campus, Kimball and Buckheit are busy recruiting new Fishing Club members and securing additional funding. Other members are interested in fishing locally and catching other types of fish.

"The way I see it working in the future is sort of like how the Explorers Club works now," Kimball said. "Members could sign out equipment, get reimbursed

for trips and go out and enjoy a Saturday. But right now, the club does not have its own equipment or a boat."

A win at the Regional Championship would help the club reach at least one of its goals. The top prize includes a \$25,000 donation to the team's university and a \$25,000 Ranger Boat wrapped in the school's colors.


For more information on FLW Outdoors and its College Fishing series, visit: [www.collegefishing.com](http://www.collegefishing.com).

## piper TRIVIA

Congratulations to Natalie Bennett, Krystal Ying, Shriya Joag and Prachi Wadekar for answering the October Piper Trivia question. Go online to the Piper+ at <http://bit.ly/CMUpiper> for this month's question. Previous winners are ineligible. Winners will receive a prize from the Carnegie Mellon Bookstore.

### Connect with Internal Communications

 <http://bit.ly/CMUnewsFacebook>

 <http://www.twitter.com/CMUnews>

## NEWS BRIEFS

### Professors Explore Homestead in Book

A new book of poetry and photography by professors Jim Daniels, Jane McCafferty and Charlee Brodsky explores the transformation of Homestead, Pa., and its neighboring Steel Valley communities, from the once thriving steel-producing capital of the world to an area divided. "From Milltown to Maltown" combines poems by Daniels and McCafferty with Brodsky's photos to tell the story of the bordering towns of Homestead, West Homestead and Munhall, where on one side of the railroad tracks is a popular commercialized shopping destination, and on the other side communities struggling to survive.

### Supercomputing Center Uses New Blacklight System

Researchers are making productive use of Blacklight, the new system that the Pittsburgh Supercomputing Center (PSC) acquired in July with a \$2.8 million award from the National Sci-

ence Foundation. The new system's extremely large, coherent shared-memory opens new computational capability for U.S. scientists and engineers. Forty-three users representing 18 research groups are using the PSC's Blacklight for projects in machine learning, natural language processing, software security, analysis of molecular biology simulations, extreme-scale performance engineering, chemistry, fluid dynamics, the early universe, condensed matter, seismic analysis and genomics.

### United Way Campaign Is Under Way

Carnegie Mellon's 2010 United Way Campaign runs through Dec. 23. In ordinary times, many people in the community need assistance from the United Way, but in these very tough economic times the need is much greater. For example, through April of this year, there has been a 141 percent increase in calls to the United Way Help Line about emergency family shelter, and 321,429 people have turned to the United Way for basic needs like food and clothing. It's requests like these that make the need for contributions, no matter what the

amount, extraordinary. Paper forms were sent via campus mail. Donations also can be made online or by downloading paper forms at [www.cmu.edu/hr/unitedway](http://www.cmu.edu/hr/unitedway).

For more information about CMU's United Way Campaign, contact Megan Worbs at [mworbs@andrew.cmu.edu](mailto:mworbs@andrew.cmu.edu).

### Goldman Sachs Fund Gives \$2 Million for Student Aid

Goldman Sachs Gives, the donor-advised fund of Goldman Sachs partners, has made a \$2 million gift to assist students whose families have been disproportionately affected by America's economic recession. The \$2 million gift will be used for scholarships based on financial need and academic performance beginning this semester.

The contribution to Carnegie Mellon was made at the recommendation of Paul M. Russo (S'86), managing director at Goldman Sachs. The contribution will fund both endowed and expendable scholarships for students. Both Russo and his wife, Allison (TPR'88), are graduates of Carnegie Mellon.

"Carnegie Mellon students are high aca-

demic achievers from diverse communities across America," Russo said. "While many of their families have suffered during this economic downturn, we are optimistic that this gift will have an immediate impact by providing assistance for a number of students to stay in school and graduate. We hope that the initiative will be a catalyst for others to act to help close the growing financial support gap."

### Updated CMU App Available in iTunes Store

A new version of the CMU App for iPhones, iPod Touches and iPads, is available in the iTunes Store. New features offer a variety of ways to stay connected to Carnegie Mellon.

Users can follow a variety of CMU news and social media feeds, including the Carnegie Mellon homepage feed, the Internal News team's Twitter feed and a variety of feeds from schools and colleges. The multimedia feature allows users to subscribe to university and user-generated content on YouTube, Flickr and more.

The new version allows access to commonly used campus websites through the new Web Links feature, and iPad users can read the latest



# Nobel Laureates with CMU Ties Stand at 18 with Alum's Win

■ Mark Burd

Dale Mortensen, who earned his Ph.D. in 1967 from the Tepper School of Business at Carnegie Mellon, formerly known as the Graduate School of Industrial Administration, was awarded the prestigious Nobel Prize in Economic Sciences. He is the 18th person affiliated with Carnegie Mellon to win a Nobel Prize.

Mortensen shares the 2010 Nobel Prize with two fellow economists, Peter Diamond of the Massachusetts Institute of Technology, and Christopher Pissarides of the London School of Economics. The trio was awarded the prize for their research in creating labor models that explain the effects of regulation and economic policy upon unemployment,



DALE MORTENSON

job vacancies and wages. Mortensen is the Ida C. Cook Professor of Economics and director of the Mathematical Methods in the Social Sciences Program at Northwestern University in Evanston, Ill. He is currently a visiting professor at the University of Aarhus in Denmark.

Mortensen joins a distinguished list of faculty and Ph.D. alumni of the Tepper School of Business who have been awarded the Nobel Prize in Economic Sciences. Recipients are:

- Herbert A. Simon (1978)
- Franco Modigliani (1985)
- Merton H. Miller (1990)
- Robert E. Lucas, Jr. (1995)
- Finn E. Kydland (2004) (Henderson Award 1973)

- Edward C. Prescott (2004) (Henderson Award 1967)
- Oliver Williamson (2009) (Henderson Award 1962)
- Dale Mortensen (2010) (Henderson Award 1965)

While studying at Carnegie Mellon, Mortensen received the 1965 Alexander Henderson Award winner, an honor that is given by the economics faculty in recognition of "excellence in economic theory." He is the fourth Alexander Henderson Award winner to also win a Nobel Prize.

For the complete list of CMU Nobel laureates, visit [www.cmu.edu/news/rankings-awards/awards/nobel-prize.shtml](http://www.cmu.edu/news/rankings-awards/awards/nobel-prize.shtml).

## OBITUARY: WATTS HUMPHREY, 1927 - 2010

# "Father of Software Security" Won the National Medal of Technology

■ Richard Lynch

Watts Humphrey, founder of the Software Process Program at the Carnegie Mellon Software Engineering Institute (SEI) and recipient of the National Medal of Technology, died in late October at his home in Sarasota, Fla. He was 83.



Known as the "Father of Software Quality," Humphrey dedicated the majority of his career to addressing problems in software development including schedule delays, cost increases, performance problems and defects. Humphrey joined the SEI in 1986, after making what he described as an "outrageous commitment to change the world

of software engineering."

"Changing the world of anything is an outrageous personal commitment," Humphrey said in an interview in early 2010, discussing his decision to come to the SEI. "I knew I couldn't do it alone, and I wanted to be in an environment where I could work with folks and do that."

"As the pioneering innovator behind several important software development processes, Watts Humphrey more than met his promise to change the world of software engineering. His contributions go well beyond methodology and the many awards and accolades he received. For decades, his work inspired software engineers and his colleagues and friends worldwide. His warmth, energy, great spirit and dedication will be missed by all of us at Carnegie Mellon," said Jared L. Cohon,

president of Carnegie Mellon.

He arrived at the SEI after working for nearly three decades at IBM, where as director of programming and vice-president of technical development, he supervised 4,000 software professionals spread across 15 laboratories in seven countries.

that has been adopted by thousands of organizations across the globe.

For his work in software engineering, Humphrey was awarded the 2003 National Medal of Technology which he received from President George W. Bush in a special ceremony at the White House in 2005. Humphrey is the author

### "QUALITY IS A JOURNEY THAT NEVER ENDS." — WATTS HUMPHREY

At the SEI, Humphrey established the Software Process Program, led development of the Software Capability Maturity Model, and introduced the Software Process Assessment and Software Capability Evaluation methods. These later became the basis for the development of the Capability Maturity Model Integration (CMMI), a framework of software engineering best practices

of 12 books on software engineering and hundreds of technical reports, journal articles and columns. The Watts Humphrey Software Quality Institute in Chennai, India, is named after him.

To read more about Humphrey and see samples of his published work and video clips of him receiving the National Medal of Technology, visit [www.sei.cmu.edu/watts](http://www.sei.cmu.edu/watts).

issue of Carnegie Mellon Today magazine, as well as past issues.

The app was created by the University Advancement Marketing Communications team working with others across campus, with John Przyborski serving as lead programmer, Stephen Chabassol as lead designer and Jay Brown as project leader. For more: [www.cmu.edu/cmuapp](http://www.cmu.edu/cmuapp)

## Students Honored for Community Service

Austin Mitchell, a Ph.D. student in engineering and public policy, and Amber Nolan, a master's degree student in civil and environmental engineering, won the 2010 Communitas Award for social responsibility and community volunteerism, presented on behalf of the Association of Marketing and Communication Professionals. Mitchell and Nolan were recognized for their work on "Pelican Plight: Saving the Bayou Birds." Students collected 22 boxes of Dawn detergent, rubber gloves and paper towels to send to relief workers in late June to help endangered brown Pelicans impacted by the BP oil spill in the Gulf of Mexico.

This is the third time the College of Engineering has won a Communitas Award. Cricket Credits, which won in 2009, raised money for fallen Pittsburgh Police officers killed in an ambush in the city's Stanton Heights neighborhood. Bianka Roy and Sangita Sharma were recognized for a new community-oriented program in December 2009, which gave gifts of lipstick and cosmetics to the mothers and wives of injured U.S. Army soldiers who survived a shooting massacre at Fort Hood in Texas.

## CMU Press Acquires Titles from Closed Press

Carnegie Mellon Press has acquired the complete stock of Eastern Washington University Press, which closed on June 30. CMU Press will represent every title that EWU Press published.

"In an economic time when things have been very difficult for university presses, we've been able to persist," said Gerald Costanzo, founder and director of the CMU Press. "Eastern Washington University Press has been an excellent literary press, and by acquiring their stock we will be able to keep more than 100 of their titles in print."

Founded in the late 1970s, EWU Press gained prominence producing books focusing on themes pertinent to the inland Northwest. "The Surfacing of Excess" by poet Arianne Zwertjes, EWU Press' final book published in May, will be advertised with the current Carnegie Mellon Poetry Series. Authors who have written and edited books under EWU Press include Dorianne Laux, Carolyn Kizer, Peter Everwine, Tess Gallagher, Sascha Feinstein, Christopher Buckley, Paisley Rekdal, Joseph Millar, Kathy Fagan, Michael Heffernan, Philip Dacey, Robert Bly and Carnegie Mellon English Professor Jim Daniels.

The CMU Press staff is cataloging and processing the acquired titles and placing them with the press' distributor, Cornell University Press Services of Ithaca, N.Y. The first 15 titles became available from Cornell on Oct. 1. Additional titles will become available each week.

## Westinghouse CEO Kicks Off New Speaker Series

The College of Engineering (CIT) launched a Leadership Speaker Series in October by hosting Westinghouse Electric Company CEO Aris

Candris (CIT'74, '79), who discussed the role of nuclear power in today's energy-constrained world.

"With the need to meet the growing demand for energy, the world is looking to sources that don't emit greenhouse gases," said Candris, who began his Westinghouse career in the former Advanced Reactor Division. "Nuclear energy is experiencing a resurgence because it provides clean, safe and reliable energy, and it's quite attractive economically when compared to other sources of clean energy."

Candris was joined in the discussion by a panel of Carnegie Mellon energy experts, moderated by Pradeep Khosla, the Dowd University Professor and CIT dean.

Carnegie Mellon panel members included: Andrew J. Gellman, head of the Chemical Engineering Department; Edward S. Rubin, the Alumni Professor of Environmental Engineering and Science; and Jay Whitacre, an assistant professor of materials science and engineering and engineering and public policy.

Watch the talk online at [www.youtube.com/user/carnegiemellon#p/a/u/0/WCGeKqZmJ8](http://www.youtube.com/user/carnegiemellon#p/a/u/0/WCGeKqZmJ8)



# International Alumni Celebrate Inspire Innovation Campaign

PHOTOS COURTESY OF CARNEGIE MELLON UNIVERSITY



ABOVE LEFT: PRESIDENT JARED L. COHON (THIRD FROM LEFT) STOPPED IN HONG KONG AS PART OF AN ASIA-PACIFIC TRIP. PICTURED WITH HIM ARE CARNEGIE MELLON ALUMNI.

ABOVE: WILLIAM L. MEANEY (TPR'86), CEO OF THE ZUELLIG GROUP, HOSTED THE HONG KONG EVENT.

LEFT: RICK CHEN (TPR'06) WAS AMONG THE MANY ALUMNI WHO ATTENDED THE TAIPEI EVENT.

Carnegie Mellon alumni, parents and friends recently gathered for a series of events in Hong Kong, Taipei and Shanghai in early October to celebrate Inspire Innovation: The Campaign for Carnegie Mellon University, which has already raised more than \$670.7 million (as of October 15, 2010) toward the overall goal of \$1 billion. The events were hosted by William L. Meaney (TPR'86), CEO of The Zuellig Group; Paul P. Wang (MCS'67, '71), managing general partner of Pacific Venture Partners and chairman of the Taiwan Alumni Chapter; and the Beijing and Shanghai alumni chapters.

At each event, President Jared

L. Cohon shared the latest news and updates about the university as well as opportunities to be involved in the campaign.

"Carnegie Mellon is a fountain of ideas and innovations — ideas that far surpass the financial resources that the university has to provide," Cohon said. "That's why this campaign is so important. It allows us to provide the facilities, start-up money for new faculty, and support for students who need financial assistance. But, it is not just about raising money. It has been from the beginning about increasing alumni involvement and engagement — to be connected, to be

involved and to give back."

In Shanghai, Cohon joined a Pittsburgh delegation of government, business and academic leaders that attended the International Business Leaders Advisory Council.

Cohon's trip to the Asia-Pacific region is part of an ongoing effort to connect with members of the Carnegie Mellon community around the world.

Since October 2008, the university has hosted campaign gatherings in the San Francisco Bay Area; New York City, Washington, D.C.; Singapore; Mumbai; Bangalore and New Delhi. Upcoming events are being planned for Los Angeles and Boston.

For more information and photos from past events, visit [cmu.edu/campaign](http://cmu.edu/campaign).



## \$1 BILLION GOAL IN SIGHT

THE UNWAVERING, ACTIVE INVOLVEMENT AND FINANCIAL SUPPORT OF MORE THAN 45,000 ALUMNI, PARENTS, FACULTY, STAFF AND FRIENDS OF CARNEGIE MELLON HAS POSITIONED THE UNIVERSITY TO ACHIEVE THE \$1 BILLION INSPIRE INNOVATION GOAL BY JUNE 30, 2013. AS WE ENTER THE HOMESTRETCH OF THE CAMPAIGN, THIS NEW VISUAL ON CAMPUS AND IN VARIOUS COMMUNICATIONS WILL CONTINUE TO MEASURE PROGRESS. FOR THE MOST UP-TO-DATE TOTAL, VISIT [CMU.EDU/CAMPAIGN](http://CMU.EDU/CAMPAIGN).

## Faculty & Staff Annual Fund Committee Seeks Volunteers

Carnegie Mellon's Faculty & Staff Annual Fund Committee is looking for additional volunteers.

Committee members work as advocates on behalf of the university and foster relationships with their campus colleagues to enhance the effectiveness of the university's fundraising efforts. The group meets several times a year. To learn more about volunteering, contact Carole

Panno in the Office of Annual Giving at [cp1g@andrew.cmu.edu](mailto:cp1g@andrew.cmu.edu) or visit [www.cmu.edu/campaign/involved/faculty.html](http://www.cmu.edu/campaign/involved/faculty.html).

An additional way to demonstrate your pride and commitment to the university is by making a gift to the Faculty & Staff Annual Fund. By investing in Carnegie Mellon with a gift of any size, participants are underwriting the continued strength

and vitality of students, faculty and programs, and become a part of the philanthropic history on which CMU was founded more than 100 years ago.

The size of a gift is not nearly as important as the act of giving itself. Even better — donors can designate gifts to an area on campus of particular interest to them. Payroll deduction forms are available at <https://www.cmu.edu/campaign/ways/payrollform.pdf>.

Contact Panno for more information.

The current Faculty & Staff Annual Fund Committee includes Amy Barry, Sarah Belousov, Alice Bright, Larry Cartwright (chair), Judy Hallinen, Ken Hallinen, Erika Linke (chair), Joan Maser, Deanna Matthews, Jim Miller, Michael Murphy, Chris Nolin, Walter Schratz, Everett Tademy (chair) and Marilyn Thomas.