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## Orientation

# Hires Now Greeted With Collaborative New Program

■ Heidi Opdyke

Like many other programs at Carnegie Mellon, welcoming new hires to the university has become a group effort.

Starting in January, HR has added a half-day orientation program for new hires to become acquainted with the university and to receive a wide variety of information relating to their employment at Carnegie Mellon.

"The first goal is to give the new hires a warm welcome so they feel like they are part of the campus community and understand how important their roles are to the university's success and pursuit of excellence," said Dan McNulty, assistant vice president of Continued on page eight

## 1000plus

### CMU's Community Service Day Spreads Beyond Pittsburgh

■ Heidi Opdyke

What once was a local volunteer effort is now a global one.

For this year's 1000plus, CMU's day of service on Saturday, April 6, volunteer opportunities are available for faculty, staff, students and alumni in Pittsburgh and around the world.

Senior Michael Carroll, chair of the 1000plus executive board, said the planning process is under way in Pittsburgh and chapters in Washington, D.C., Boston, Detroit, New York

## Welcome Suresh Family!



HERB, A CMU ROBOT, GREETS PRESIDENT-ELECT SUBRA SURESH DURING A RECEPTION WELCOMING HIM AND HIS FAMILY TO THE PITTSBURGH CAMPUS. LOOKING ON ARE HIS DAUGHTERS, MEERA AND NINA, HIS WIFE, MARY, AND CMU CHAIRMAN OF THE BOARD RAY LANE.

■ Heidi Opdyke

During his first official visit to Carnegie Mellon's Pittsburgh campus, Carnegie Mellon Presidentelect Subra Suresh remarked that "there's something magical about this place."

"I very much look forward to interacting with this community that I've admired from afar for a very long time," he said.

The university community welcomed Suresh, his wife, Mary, and their daughters Nina and Meera during an event Feb. 21. Suresh, director of the National Science Foundation since 2010, will take office on July 1, succeeding Jared L. Cohon who is stepping down.

Cohon said that the day was the beginning of the transition in some sense.

"I'm a lame duck, but not a dead duck," he said. "I still have four months or so left. Subra has made it very clear as soon as he is done with the NSF in late March, he's going to be very eager to dig into the process of getting to know

us and being prepared to take up his presidency.

"We are a very welcoming community. I experienced that in the beginning, 16 years ago, until today. And I know that you will welcome the Sureshes in the way that you did Maureen and me."

Ray Lane, chair of CMU's Board of Trustees, commented on the longevity of Suresh's predecessors.

"It's really remarkable that the university is now 113 years old, and in that time we've had eight presidents. I think that speaks to the quality, I think that speaks to the thoroughness, I think that speaks to the depth of an institution when you have leadership that sustains

that long of periods," Lane said.
"I told Jerry he is now about to enter into an era. How we will talk about this as the Cohon era, as he has talked about the Mehrabian era or the

"I think Jerry understands more than anybody — except Mehrabian — how much we love and respect his leadership of the university over the last 16 years," Lane said. "It has been a real love affair."

Lane then turned to the future. He said that Suresh's achievements have been impressive. Leading the NSF for the past couple of years,

CONTINUED ON PAGE FOUR

## Soundcheck

## Music Recording Studio a Hit

#### ■ Bruce Gerson

The School of Music is known for producing outstanding musicians, vocalists and composers, but it's also becoming recognized for its hidden jewel in the basement of the College of Fine Arts building.

That treasure is the popular Johnny Costa (A'51,'52) Jazz Studio and its adjacent control room, where students learn the technical craft of recording and where local groups are flocking to produce their work. The jazz studio, made possible by the McFeely Rogers Foundation, is named in memory of Costa, the late jazz pianist best known for his work as musical director of the children's television program "Mr. Rogers Neighborhood."

Riccardo Schulz, associate teaching professor in the School of Music, manages the studio, which also serves as his classroom. One of his courses, a seven-week, nine-unit mini-course titled "Multitrack Recording," is making a name for the acoustical laboratory by connecting with local artists.

This semester Schulz' 23 students include engineering, computer science, business, mathematical sciences, chemistry, humanities and, of course, music majors. They work in small groups to run recording sessions for visiting artists.

This semester his students have worked with musicians, including CMU students and recent graduates, perform-

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ing various genres, from contemporary gospel, contemporary classical and folk, to jazz, rock, hip hop — including Cuban and Korean - and combinations, or fusions, thereof. They also run recording sessions for high school hip hop artists in CMU's Arts Greenhouse program.

"The students are responsible for communicating with the artists to get all the details. They set up the microphones, work the control board and run the sessions. This is a class in which the students do all the work and I sit back," Schulz said.

"I've found that if they have more of a stake in the process they learn more. The less I do, the more they learn. Communication skills also are important, and I do remind them to remember the manners their parents taught them when dealing with the artists," he added.

Andrew Mort, a sophomore electrical and computer engineering major, appreciates Schulz' approach.

"This is something that is very useful because we really have to know our stuff in order for the session to go smoothly," Mort said. "The best way to learn is by doing and when Riccardo allows us to do it without him, we are forced to remember and perform the tasks by ourselves. This really helps me to learn in a quick and effective way."

Two of Schultz' former students — Fritz Myers and Eric Boulanger — have made recording music their careers. Boulanger (E'07), a violinist and chief engineer for The Mastering Lab in Oaji, Calif., works with Grammy Award-winning artists, producers and engineers on a daily basis. Myers (A'04), who served as a teaching assistant under Schulz, is a composer, musician and owner of Platitude Music, a production company in Brooklyn, N.Y.

Myers, who earned his bachelor's degree in music composition, said the experience in the CMU studio was invaluable and greatly influenced his career. He said as a student he learned that the recording studio played a powerful role in the finished product. He also



BILLY PRICE, A.K.A. WILLIAM POLLAK, A MARKETING MANAGER AT THE SOFTWARE Engineering Institute, records in the Johnny Costa (A'51,'52) Jazz Studio.

realized there were more jobs in the recording industry than in composing.

"Riccardo was extremely supportive and really interested in letting the students use the studio in creative ways. He was very reachable and patient exactly the type of person you want in a creative environment," Myers said.

The studio's growing list of musical clients includes Tim Ruff (A'10), a staff member for CMU's Temporary Employment Services, and the popular Billy Price Band, an R&B and soul ensemble led by Billy Price, a.k.a. William Pollak, a marketing manager at the Software Engineering Institute.

Ruff, who describes himself as a "sophisticated pop" musician, is a singersongwriter who is planning to release a full-length album this spring. He said the studio has a "great suite of microphones and different spaces to record." He said he played acoustic guitar in one room, piano in another and saxophone in the classroom area.

Price said the band captured tracks for 13 songs in the recording studio for its new CD that will be released June 4 on DixieFrog Records, a French blues

label. The sound tracks recorded at CMU were then taken to a Fox Chapel studio for "mixing and tweaking."

Price, who's produced more than a dozen CDs, said recording in the Costa Studio was Eric DeFade's idea. DeFade, artist lecturer in jazz and director of the Jazz Ensemble in the School of Music, is the Billy Price Band's saxophone player.

"He suggested it. We tried and it's worked out well. We're getting a lot of good sound. It's been a great arrangement. It gives students the opportunity to experience what a real recording session is like," Price said.

Schulz said it was interesting watching the process in which the band recorded. "They lay down tracks. First it was the quartet — drums, keyboards, guitar and bass — with Billy singing by the soundboard. Second were the horn players, then Billy singing in the 'iso-booth,' and then the background singers," Schulz explained.

Schulz called Price "energetic and demanding."

"He wants everything to be perfect, which is fine with me. That's what we're all about, too," Schulz said.

## Biegler, Moura Honored as Elite Engineers

#### ■ Chriss Swanev

Carnegie Mellon's Lorenz (Larry) T. Biegler and Jose M.F. Moura have been elected to the National Academy of Engineering (NAE), one of the highest professional honors an engineer can

Membership in the NAE honors people who have made important contributions to engineering theory and practice, and who have demonstrated unusual accomplishments in pioneering new and developing fields of technology. The two Carnegie Mellon faculty members join

the current 2,250 NAE members and 211 NAE foreign associates.

"This is a well-deserved recognition of professors Biegler and Moura. We are extremely proud of their outstanding accomplishments and tremendously pleased to hear of their election. They are excellent examples of the innovative, hard-working and collaborative nature of our engineering faculty," said James H. Garrett Jr., dean of CMU's College of Engineering and the Thomas Lord Professor of Civil and Environmental Engineering.

Both engineering professors are leaders in their respective fields, which span a variety of sectors, from pioneering work in computer-aided process engineering and groundbreaking research to extract relevant facts from large data sets ('Big Data') and designing innovative algorithms for increasing the accuracy with which hard disk drive circuits read data from high speed magnetic disks.

Biegler, a University Professor and the Bayer Professor of Chemical CONTINUED ON PAGE FIVE

## Giving Back

#### **ACS Scholars Provide Gifts to Seven Projects**

■ Piper Staff

Andrew Carnegie Society Scholars (ACS) are giving back.

The 40 seniors in the program are chosen by deans and department heads to represent their colleges in service and leadership. Throughout the fall and early spring, ACS Scholars participate in a series of small gatherings and events to learn more about philanthropy. Events range from learning about the university finances and reading Andrew Carnegie's "Gospel of Wealth," to meeting alumni donors and learning about how they support the university.

"During the academic year, the ACS Scholars meet with the board members and other volunteers to exchange viewpoints about giving," said Kathleen Bonte, director for Leadership Annual Giving and a staff liaison to the Andrew Carnegie Society Board. "The conversations help inform the ACS Scholars when they begin their own group discussions, and as they review the student organization



College of Engineering seniors Andre Sutanto and Neil Abcouwer announce this year's winners of the 2013 ACS Scholars' grants during a lunch with university deans in Early February.

grant proposals."

As part of the program the group of students has distributed \$8,000 to university organizations through a grant process. They worked together to

review proposals requesting financial support. Bonte said it was the first time many of the students had served on a philanthropic granting board.

Andre Sutanto, a senior in

engineering, said he appreciated the opportunity and came away with an important life lesson.

"Given the limited resources that we have, we have to look into our original objectives. In which way would we want our impact to be felt most? This process made me think about where and how I would want to leave my mark in the Carnegie Mellon University community and in the world in general," he said.

Grants were awarded to the following organizations in mid-February:

- 1000Plu
- CMU International Justice Mission/ Amnesty International/CMU UNICEF
- CMU Juntos
- CMU Aquatics Submarine Team (AIAA CMU Chapter)
- Filmmaking Club
- Project Healthy Lifestyles
- TEDxCMU

For more information on the program, visit www.cmu.edu/ andrewcarnegiesociety.

## Carnegie Mellon in Rwanda

#### **Grant To Improve Health Care in Africa**

■ Piper Staff

Carnegie Mellon in Rwanda (CMU-R) has been awarded a grant from Ricoh Innovations Inc. (RII) to pursue research on information and communication technology (ICT) for health care in developing countries.

The unrestricted grant will support the research of CMU-R's Assistant Professor Hedda Schmidtke and Scholar-in-Residence Suzana Brown in the area of ICT for health care.

CMU-R has identified ICT for health care as a principal research thrust because of the profound impact that advances in this sector can have in developing countries. Creative innovations that address the needs of developing countries have the potential for significant impact because of the growing demands on limited expensive medical resources.

"We are delighted to receive this grant from RII," said CMU-R Director Bruce Krogh. "It makes it possible for our faculty and students to launch new research into ICT innovations that will significantly improve health care in developing countries like Rwanda, particularly through the use of mobile technology."

RII is a Silicon Valley-based subsidiary of Ricoh Company, Ltd., the leading provider of digital office solutions, and develops innovative technologies and new business opportunities for Ricoh.

"We are proud to support this important research in Rwanda," said Nikhil

Balram, president and CEO of RII. "RII is working to advance open innovation in emerging countries through collaboration between industry and researchers, yielding both technological and academic advances. The research carried out at CMU-R has the potential to improve the way health care is delivered not only in Rwanda, but throughout the world."

#### **Scholarships Available**

CMU-R began offering the Master of Science in Information Technology (MSIT) program in August and is accepting applications for admission in August 2013.

The Government of Rwanda is offering future technology leaders from across the East Africa Community (EAC) 50 percent scholarships for all successful applications from that region.

This is the second academic year that the Government of Rwanda has extended the scholarship to all EAC nationals.

While all successful EAC applicants will benefit from the government scholarship, subject to a financial needs assessment, Rwandan citizens can benefit from loans provided by the Rwanda Education Board.

"We are convinced that the technological breakthroughs that are going to be the foundations of the ICT industry in Africa will come from inventors and entrepreneurs who work in Africa and understand the technological challenges and needs that are unique to Africa," Krogh said.



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Thanks to all of you — nearly 50,000 alumni, faculty, students, parents and staff — who supported the Inspire Innovation Campaign, we are in the homestretch of an historic effort that's already impacting everything from New Research facilities to faculty and student support.

BUT WE'RE NOT DONE YET.

Celebrate with us at Spring Carnival (April 19-21) as we prepare to cross the campaign finish line in June 2013.

## Faculty, Staff Get in the Act With Greek Sing

#### Abby Simmons

Carnegie Mellon's Greek community is full of philanthropists rich in talent and creativity.

In 2010, the Interfraternity Council and Panhellenic Association — the governing bodies of most campus fraternities and sororities — established a four-year goal to raise \$150,000 for the Children's Institute of Pittsburgh through its annual Greek Sing competition.

Greek Sing 2013 co-chairs Caroline Flowers (DC'14) and Molly Shanley (DC'15) of Delta Delta Delta and Kappa Kappa Gamma, respectively, said the Greek community raised more than \$40,000 in 2011 and \$50,000 in 2012. They hope to raise \$60,000 this year to surpass their long-term goal a year ahead of schedule.

In addition to the 19 fraternities and sororities involved in Greek sing, faculty and staff also volunteer to make the event a success.

Students nominate six faculty and staff members annually to serve as judges. This year's panel will evaluate performances such as "Legally Blonde," "Rock of Ages" and "Aladdin" on criteria such as music, choreography, set design, costumes and showmanship.

Angie Lusk served as a judge for the first time last year. As a coordina-



tor of Student Life, she is involved in leadership development initiatives and sees Greek Sing as a primary example of the impact students can have on the Pittsburgh region.

"We recognize Carnegie Mellon as a community made up of individual student leaders, but when our students put that amount of time and collective effort into a project, the result is spectacular," she said.

Fellow 2012 judge and School of Computer Science faculty member David Kosbie also supports Greek Sing because he is impressed by the Greek community's shared mission.

"Yes, they [the students] all want to have fun, put on and see great shows, and win. But they all clearly want to help, do good and raise money to help the Children's Institute," Kosbie said.

With headquarters in Squirrel Hill, the Children's Institute delivers services through its hospital, day school and Project STAR, an adoption, foster care and intensive family support program. The children and families the nonprofit organization serves are challenged by complex and severe disabilities such as autism, cerebral palsy and/or neurological impairments.

Numerous colleges and departments buy program ads to provide the operational support for the production, which attracted a sold-out crowd of more than 2,300 last year.

A portion of funds raised comes directly from ticket sales, which are \$12 in advance and \$15 at the door. Greek Sing tickets are sold at tables in the University Center's Wean Commons during the week leading up to the show, which kicks off at 6 p.m., Saturday, March 23 at Soldiers and Sailors Memorial Hall.

Fraternities and sororities work throughout the year to raise money for the Children's Institute in addition to their national organizations' designated philanthropies. Flowers said students send donation request letters to local businesses, approach family and friends for support, and sell items such as baked goods and jewelry on campus.

## Singers Wanted:

## Join the Chorus and PSO

#### ■ Piper Staff

Robert Page, the legendary director of Choral Studies at Carnegie Mellon, is looking for a few good singers to join the chorus. Well, more than a few, actually. And he's inviting you.

The CMU Repertory Chorus will be part of a unique choir expected to reach 2,000 strong for the apex of the Pittsburgh Symphony's "Singing City" celebration on Saturday, April 20 at the Petersen Events Center at the University of Pittsburgh. The PSO with Maestro Manfred Honeck will be performing the finale of the "Resurrection Symphony" of Mahler, a segment of "Dies Irae" from Verdi's "Requiem," the chorale from Sibelius' "Finlandia."

Page is working closely with CMU alumna Christine Hestwood (A'96) to prepare the massive ensemble for Honeck.

"There is no audition involved, but some serious choral experience will be expected," Page said.

The new singers would attend the Repertory Chorus regular rehearsals from 4:30 – 5:30 p.m., Tuesdays and Thursdays in Margaret Morrison Carnegie Hall 119. Rehearsals will begin April 4.

If you are interested in participating, please contact Page at rpage@andrew. cmu.edu.

## 1000plus cmu's Community Service Day Spreads Beyond Pittsburgh Continued from Page one

City, Baltimore, the Bay Area and even chapters in the Far East have expressed an interest.

"The organizations are already together and already do service," he said. "So rather than the 1000plus committee just saying, 'How can we help the Pittsburgh community?' we asked 'How can we help the global community and reach out to everyone?"

Now in its sixth year, students continue to expand on their role in the program. Pittsburgh Cares was once the contact between the university and local organizations, but the students now have established relationships directly with the agencies.

"This is completely student driven, it's something that's very unique and a testament to the exceptional students that we have," said Liz Vaughan, director of Student Activities. "They have built up these relationships over time, and we've tried to get more strategic about working with community partners that work with us throughout the year on things such as the volunteer fair and Greek service day.

"The goal is to build longstanding and reciprocal partnerships with the nonprofits and we obviously welcome new organizations into the fold at any time, but we don't want to just show up for one day and them not hear from us for more than a year. We'd like to actually be consistently sending Carnegie Mellon volunteers to their agency," Vaughan added.

Carroll, a business administration and statistics major, said the group's goal is to make volunteering as easy as possible for people who want to participate.

"So many people at this school are so blessed and have so many skills, but maybe not the time," the Cleveland native said. "We're trying to give them the opportunity without having to do the planning process, so all they have to do is show up and give four hours of service. And they might realize that, 'hey, I can do this every week and give back to the community."

In Pittsburgh, there will be two shifts for volunteers to sign up for. The morning shift starts at 9 a.m., and the afternoon shift starts at 1 p.m. Each begins in Rangos Ballroom with a kickoff event, and transportation to and from the worksites will be provided.

Adam Rauf, past chair of Staff Council who works at the Software Engineering Institute, has volunteered with 1000plus in the past.

"As staff, we're often so busy

thinking about our responsibilities at work and who we support that we should stop and reflect on our community as well," Rauf said. "1000plus gives us the opportunity to do that, and for those of us in non-academic departments, it allows us to interact with students and faculty that we might not meet normally. You not only get to do something good for the community, but you get to make new friends and connections in the process and work together with a team of people who has a passion to do good just like you."

Volunteers will have more than 40 sites from which to choose. Descriptions of the work and the registration form are available online at willyoubecounted. com. Additionally, a promotional video can be seen at http://cmu.li/isZnP.

While large student organizations supply the most volunteers, Vaughan said that they would love to see faculty and staff members who have participated before to bring another staff or faculty member with them this year.

"The faculty and staff who have come in the past have come at the request of one of their students, or someone who they have worked closely with, but then they go and see that it's a great experience, and I know a lot of them

have gotten hooked," she said. "It's also a great opportunity for offices who don't get to work as directly with students to be able to understand student culture right now and see the great things our students are doing."

The event has been so well accepted that nonprofits called asking to be added this year.

"One thing about the board that I really love, is that every time we reach a plateau or a status quo, then we push it further," Carroll said.

#### CMU Recognized for Community Service

For the sixth consecutive year, Carnegie Mellon has been named to the President's Higher Education Community Service Honor Roll. The selection by the Corporation for National and Community Service (CNCS) and the U.S. Department of Education recognizes CMU's commitment to community service and service learning.

Judith Hallinen, assistant vice provost for Educational Outreach and director of the Leonard Gelfand Center for Service Learning and Outreach, said students spent more than 202,000 hours engaged in service and educational outreach in 2011-2012.

## Networking

#### **Career Center Helps Faculty, Staff Learn Tools To Aid Students**

■ Heidi Opdyke

More than 55,000 Carnegie Mellon students and alumni have LinkedIn accounts but their connections to faculty and staff may be just as helpful.

John Hill, LinkedIn's Higher Education Evangelist, recently offered learning and development sessions for faculty and staff through the Career and Professional Development Center (CPDC) at the Pittsburgh campus to share ways they can assist students start their careers.

"It's amazing how it has changed access to jobs," Hill told the 75 attendees. The professional networking site has been around for a decade and has more than 200 million members. Hill said that more than 85 percent of Fortune 500 companies now use LinkedIn and other sites to conduct job searches.

This was the first time that the CPDC has hosted a workshop for faculty and staff, said Debra Ignelzi, a CPDC assistant director and career consultant. They wanted to provide faculty and staff with tools to help coach students to use the website effectively.

For example, once logged into the system, a user can look under the contacts tab to learn information about colleges. Once there you can see how many students and alumni have the school in common, and users can sort through information such as where people live, work, job functions, topics of study, skills and how closely they are connected to the person conducting the search.

"LinkedIn is a major networking tool," Ignelzi said. "We're hoping that a seed has been planted and that we can use this great network to its full advantage since we are positioned in the global marketplace already."

Andy Shaindlin, associate vice president for Alumni Relations and Annual Giving, said that connecting people to each others' extended networks may be the most important aspect for students and alumni.

"By connecting with an alumnus, for example, a CMU student is gaining access to that alum's extended professional network, which goes well beyond the CMU community," Shaindlin said.

He said faculty and staff also can benefit by enabling others to find them according to their experience, expertise and interests. They also can discover what peers and colleagues are learning and doing, which often provides a road map to trends in their own professions.

Because colleges are connected to profiles, it can allow job seekers to find an alumni connection that could open a door at a time when a company is inundated with resumes.

Hill said it was important for students to create networks before they need them and to keep in mind that they should be built on quality relationships rather than quantity. There are four major affiliations to start making those connections: family and friends; university affiliations; workplace affiliations; and volunteer interests. To make LinkedIn be useful, networks should have at least 30 connections for students and 50 connections for professionals.

But, Hill said those networks need to go beyond just sending an email.

"[At LinkedIn] we support you with helping students take conversations offline," he said. The best way to engage with someone is to gather information from the website and then call potential contacts to invite them to share information.

One way to find potential connections is the official CMU Alumni Association group, which has more than 21,000 alumni members and is open to students. LinkedIn members can find the group by selecting "Groups" in the Search menu, and typing in "Carnegie Mellon Alumni."

"We encourage students and alumni to join the group," Shaindlin said.
"It can help them build out their CMU network, which is a lifelong resource.
LinkedIn is one way to make the CMU alumni network visible and accessible to anyone who can benefit from it."

Another program for faculty and staff will take place on Monday, April 8. Details are still being finalized.

For more information about CPDC programs, visit www.cmu.edu/career.

# NAE Honors Two Professors

CONTINUED FROM PAGE TWO



Lorenz (Larry) T. Biegler

Engineering, was elected to the academy for contributions in large-scale nonlinear optimization theory and algorithms for application to process optimization, design and control.

"This is a wonderful honor, and as a new NAE member I look forward to making contributions to the NAE and the engineering profession in the future," Biegler said. "This honor is another great way to showcase Carnegie Mellon and our unique place in solving some of the world's most pressing issues, through research that will lead to more efficient manufacturing processes, cheaper and cleaner energy, and better living," Biegler said.

Moura, director of the Carnegie Mellon/ Portugal program and a University Professor of Electrical and Computer Engineering and Biomedical Engineering, was



Jose M.F. Moura

elected to the academy for contributions to the theory and practice of statistical signal processing.

"I am both pleased and proud to be honored by my peers with election to the NAE as I continue with students and colleagues to pursue the challenges of making sense from the huge amounts of social, economic and hard data that inundate our everyday life, as well as carrying on my international and collaborative research and education efforts," Moura said.

In addition to Biegler and Moura, four alumni also were elected to the NAE. They include:

- Donna G. Blackmond (E'84)
   Scripps Research Institute professor, chemistry;
- Craig T. Bowman (E'61) Stanford University professor, mechanical engineering;
- David Dill (S'83,'87)
   Stanford University professor, computer science;
- Pradeep Sindhu (S'83,'84)
   vice chairman, CTO, and founder of Juniper Networks.

The NAE will honor its new members on Oct. 6 during the NAE national meeting in Washington, D.C. For a complete list of CMU's NAE members, visit www.cmu.edu/news/rankings-awards/awards/professional-societies.shtml

For a complete list of this year's inductees, visit www.national academies.org/onpinews/newsitem. aspx?RecordID=02072013.

## A Little Light Music



Hong Kong-born Pianist YeeHa Chiu Performed a concert for her grandchild's class at the Carnegie Mellon Children's School. Chiu is a Steinway Artist and a graduate of the Royal College of Music and the Juilliard School. She has performed in solo and chamber music recitals in Asia, Europe, Australia and the United States. As a concert soloist, she has performed with the London Philharmonic Orchestra, the Taipei Municipal Symphony Orchestra, the Hong Kong Philharmonic and the Vienna Symphony under Christoph Eschenbach. Now living in Pittsburgh, Chiu frequently collaborates with musicians from the Pittsburgh Symphony Orchestra.

## CMU Global Community Welcomes Suresh Family Continued from Page one











Students from around the world welcomed the Suresh family via video. To view their greetings and highlights from the day visit http://cmu.li/ias8m.

Suresh managed a budget of \$7 billion during "a really strange time in our government."

"A good, good friend of mine, Chuck Vest, a former president of MIT [the Massachusetts Institute of Technology], said he was the best leader in Washington. It really meant a lot to hear him say that to me," he said.

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SUBRA SURESH APPEARED ON A BILLBOARD IN NEW YORK CITY'S TIMES SQUARE WHEN HE WAS NAMED CMU'S NINTH PRESIDENT.

Suresh, who was the dean of engineering at MIT and previously worked at Brown University, also will hold the distinction of being one of just a handful of presidents in the Association of American Universities, which consists of leading research universities in the U.S. and Canada, who is a member of the National Academy of Sciences and

the National Academy of Engineering.

What impressed Lane the most, he said, was his thoroughness. Lane said he and Suresh had the opportunity to spend time together during the World Economic Forum in Davos, Switzerland, in January.

"It impressed me a lot to spend three days getting questions about how you could become part of this community, whether you could make an impact, and whether this could be your last great assignment to take an institution as great as CMU to the next level. And you wanted to be sure, really sure, that you could do this."

Student Body President Will Weiner said that as a tour guide for admissions, he often tells visiting potential students and parents that President Cohon will be leaving this summer but hasn't been able to tell them who the next president will be.

"I'm very excited now to be able to tell people that Dr. Subra Suresh, the chair of the NSF, is going to be our next president," Weiner said. "The families really perk up when they hear that."

An outpouring of global support during the event, which included video greetings from CMU locations around the world, prompted Suresh to remark that "the sun never sets on Carnegie Mellon."

In his inaugural speech, Suresh drew connections between his own journey and that of Andrew Carnegie. Suresh first came from India to the U.S. in 1977 to pursue graduate studies at Iowa State University. He described having borrowed money for a one-way plane ticket with less than \$100 in his pocket.

"He symbolizes the American dream in many ways," he said. "And on a much smaller scale, I can say I have experienced that same spirit of the American dream."

Suresh will be the second person to serve as both head of Carnegie Mellon and the NSF. H. Guyford Stever, who served as CMU's leader from 1965 through 1972, left after being named director of the NSF, where he worked until 1976.

Suresh said he and his wife would be moving to Pittsburgh at the end of June. His first order of business will be to go on a listening tour when he arrives on campus.

President Cohon offered an initial bit of advice on being president including never to joke about the Steelers and helped Suresh get off on the right foot by introducing him to HERB, the Home Exploring Robot Butler, who is a research project at the Quality of Life Technology Center.

CMU's mascot, Scotty, offered football jerseys to Cohon and Suresh with their names and the numbers 8 and 9, respectively, signifying their place in history as CMU's eighth and ninth presidents.

Suresh said that his relationship with Carnegie Mellon started in the early 1980s, and he has worked with a number of faculty, alumni and students.

"The values that underlie the culture of this place are values that are important with me and resonate with my own values," he said.

Suresh praised Cohon and said that they have worked together in the past on visiting committees for each other.

"The university is in such wonderful shape, I am so fortunate to be taking the reins of this university that has been led so marvelously by Jerry. So I wanted to take a few moments to offer my sincere thanks to Jared and Maureen Cohon. Thank you very much," Suresh said.

## Mellon Institute for Industrial Research To Be Designated National Historic Chemical Landmark

■ Jocelyn Duffy

World War I gas masks. Synthetic rubber. Cellulose hot dog casings.

Most people know the Mellon Institute as the monolithic, columned-building on Fifth Avenue that is home to the Dean's Office for the Mellon College of Science, the departments of Biological Sciences and Chemistry, and a number of research centers. But there's much more to the Mellon Institute than the 75-year-old fortress that bears its name.

Founded in 1913 as a facility to create ties between science and industry, the Mellon Institute for Industrial Research has a rich history of innovation.

Researchers at the institute developed

the large facilities of the factory with the new and special knowledge of the universities, and by making this combination through young men who will find therein success and opportunity."

The Mellon Institute was originally on the University of Pittsburgh's campus. It moved to the current building in 1937. The institute was renowned for its fellowship program that allowed industry to sponsor one or more researchers to work on solving a specific problem. For some companies, the Mellon Institute served as the company's sole research laboratory. For others, the work of the institute fellows and senior fellows complemented work being done in the company's own labs.

WHAT: National Historic Chemical Landmark

CEREMONY AND PANEL DISCUSSION

WHEN: 3:30 P.M., THURSDAY, MARCH 28

WHERE: MELLON INSTITUTE CONFERENCE ROOM

a wide range of products, such as those mentioned, and other work that launched the petrochemical industry and led to the founding of prominent companies including Dow Corning and Union Carbide corporations.

And, four researchers associated with the Mellon Institute have been awarded Nobel Prizes.

For the many accomplishments achieved there, the American Chemical Society (ACS) will designate the Mellon Institute for Industrial Research as a National Historic Chemical Landmark at a ceremony at 3:30 p.m., Thursday, March 28, in the Mellon Institute Conference Room.

The ceremony will be followed by a panel discussion on scientific entrepreneurship that will include chemists from CMU and the University of Pittsburgh.

In the early 1900s few manufacturing companies had laboratories dedicated to research and development. Brothers Andrew W. and Richard B. Mellon saw the challenges this posed first-hand through their interests in Pittsburgh-based businesses including the Aluminum Corporation of America.

Motivated by Robert Kennedy Duncan's 1907 book "The Chemistry of Commerce," the Mellon brothers established the Mellon Institute for Industrial Research in 1913.

In the book Duncan, who became the institute's first director, wrote:

"Everywhere, throughout America, wherever there is the smoke of a factory chimney, there are unsolved, exasperating, vitally important manufacturing problems ... It seems clear that these problems can best be answered by combining the practical knowledge and

In 1967, the institute merged with the Carnegie Institute of Technology to form Carnegie Mellon University, and continued to conduct research after the merger. Mellon Institute scientists contributed significantly to science and industry. They published more than 4,700 research papers and registered 1,600 patents.

The fellows and senior fellows created a number of inventions and processes still being used today including: chrome plating of aluminum; insecticides; butane gas for metal cutting operations; a dental cement; a mothproofing agent; a vanadium catalyst for production of sulfuric acid; new sanitary enamel; and a scuff-resistant shoe leather.

"The Mellon Institute was a workhorse of industrial research and training in America for more than 50 years," said Tom Barton, presidentelect of the American Chemical Society. "The senior fellows and fellows of the Mellon Institute were both scientists and innovators, an altogether too rare combination. Through the results of their pioneering research, American industry became further sold on the practical benefits of science to develop new products, grow companies and solve essential problems. This produced an industrial dominance for the U.S., and its continuation will undoubtedly be the source of our bright economic future."

Today, researchers working within the walls of the Mellon Institute building and at area universities like CMU and Pitt, are carrying on the tradition of innovation that began in 1913.

"To this day we still search for



A HISTORICAL PHOTO FROM THE M ELLON INSTITUTE SHOWS AN UNIDENTIFIED SCIENTIST CONDUCTING WORK AS PART OF A PETROLEUM FELLOWSHIP.

ways to develop ties between industry and academia," said Guy C. Berry, Emeritus University Professor of Chemistry and former Mellon Institute senior fellow, who was part of the team who nominated the institute for landmark status on behalf of the ACS Pittsburgh Section. "The Mellon Institute may be 100 years old, but the mission set forth by its founders remains relevant to scientists today."

At the March 28 panel discussion scientists will discuss scientific entrepreneurship and research commercializa-

tion. Panelists will include CMU's J.C. Warner University Professor of Natural Sciences Krzysztof Matyjaszewski, Maxwell H. and Gloria C. Connan Professor in the Life Sciences Alan Waggoner, Visiting Associate Professor John Belot, and Associate Professor of Chemistry and Biomedical Engineering Newell Washburn. Pitt panelists will be Distinguished Professor of Chemistry Sanford Asher and George M. Bevier Professor of Engineering Eric Beckman. Michelle Ward, a lecturer in Pitt's Department of Chemistry, will moderate the panel.

# Staff Council Presents: THE FINAL OPEN FORUM WITH PRESIDENT JARED L. COHON



Jared L. Cohon will be stepping down as president on June 30 after leading the university to unparalleled success during the past 16 years.

Join members of the university community as President Cohon provides a brief update on the state of the university and answers questions from the audience.

## MONDAY, MARCH 25 / NOON – 1 P.M. CONNAN ROOM, UNIVERSITY CENTER

Attendance at this Staff Council sponsored event is restricted to members of the university community only.

For more information, please visit www.cmu.edu/staff-council.

## LEGENDARY FILMMAKER: Tull Living His Dreams at the Movies



THOMAS TULL, FOUNDER, CHAIRMAN AND CEO OF LEGENDARY ENTERTAINMENT AND CARNEGIE MELLON TRUSTEE, CHATS WITH PROVOST AND EXECUTIVE VICE PRESIDENT MARK KAMLET AS PART OF THE INNOVATORS FORUM SPEAKER SERIES.

■ Bruce Gerson

Thomas Tull loved watching movies as a child. Today he loves making them.

Tull, founder, chairman and CEO of Legendary Entertainment and a Carnegie Mellon trustee, spoke about living his dream at Carnegie Mellon's Innovators Forum, March 5.

"I feel like the luckiest guy on the planet," Tull said. "I just love to sit down and watch a movie, you're taking that journey. The lights go down and anything can happen."

And he's made it happen at Legendary Entertainment, producing such blockbuster hits as "Dark Knight Rises," "Inception" and "The Hangover" (parts I and II).

He said he approaches each movie like a startup company, balancing the creative idea with the financials.

Tull's CMU connection isn't his

only Pittsburgh tie. Raised in Binghamton, N.Y., he grew up a Steelers fan.

In 2006, he came to Pittsburgh for Legendary's screening of "We Are Marshall," which chronicled Marshall University's attempt to rebuild its football program after team members were tragically killed in a plane crash in 1970.

At the screening he met the Rooney family, owner of the Steelers. When the Rooneys were looking to form a Steelers ownership group in 2009, Tull said he was thrilled to be invited to join the team as a minority investor. He flies from L.A. to Pittsburgh for home games, living out another childhood passion.

"Work hard, put yourself out there and don't be afraid to fail," he said. "Regardless of your passions, don't put yourself in a box and say that's beyond my reach. You can do anything."

## University Welcomes Hires Through New Program continued from page one

Human Resources (HR).

"The second goal is to give them the information they need in order to make their first year at Carnegie Mellon as successful as possible. Since there is a lot of important information, we pared it down and made it more accessible and understandable."

McNulty said when the program was proposed, campus interest was phenomenal.

"It's really reflective of the CMU spirit," he said.

Speakers and videos touch on everything from university culture, information technology, and athletics resources to university policies and benefits information.

"We are a collaborative university," said Elaine Keim, director of interna-

tional HR. "Much of the university saw this as a podium to advance their initiatives and share the great work their departments are doing and how they can help new hires," Keim said.

Invitations go out to new hires several times a month, and HR is considering having special presentations for current university employees interested in a refresher on university resources and benefits.

Gena Henry, who joined the university last summer as an Andrew Carnegie Society Gift Officer, said each presenter was well prepared to address the group and provided detailed and useful information.

"The new employee orientation was very well organized and informative, and I left the day with much more comprehensive knowledge of the university as a whole and a deeper understanding of the roles and responsibilities of individual divisions within the university," Henry said.
"I also left the day with a renewed sense of solidarity and a feeling of honor that I have the opportunity to be a part of this amazing team of people that is Carnegie Mellon."

Her sentiment was echoed by Deborah Zalewski, a senior associate business manager for the Robotics Institute. Zalewski, a longtime employee of the university attended an orientation session to understand what new hires would be learning so that she would be better informed to assist them.

"As a current employee, I felt invigorated with a renewed sense of pride

in my employer," Zalewski said. "The orientation gave such a down-to-earth, hometown feel. I walked out of there with a grin on my face."

This is just the first step to a new orientation process, said Kim Abel, director of Learning & Development. Additional programs for new hires are being developed to complement the orientation program. Items being considered include networking gatherings and departmental outreach activities.

McNulty and Abel said they are polishing the program. Additional presenters may be considered, and feedback is important.

For more information about the program, contact Heather Wainer at hwainer@andrew.cmu.edu.

## Cataloguing Greatness: Dietrich College Celebrates Humanities

■ Shilo Rea

Carnegie Mellon has bolstered its standing in the humanities thanks to distinguished faculty and support from numerous foundations, corporations and individuals.

In February, the Dietrich College of Humanities and Social Sciences and the Center for the Arts in Society (CAS) held "A Celebration of the Humanities with Michael Witmore."

Witmore, the director of the Folger Shakespeare Library and former CMU English faculty member, spoke on the changing perspectives on archives. He discussed how many believe that the widespread digitization of cultural heritage materials has led to the verge of a golden age of digital access and what that truly means for scholars of the humanities.

Faculty, students and alumni from the four humanities departments —

English, History, Modern Languages and Philosophy — joined Dietrich College Dean John Lehoczky, CAS Director Paul Eiss and other members of the campus community for a look at the past, present and future of the humanities at CMU.

"When I became dean in 2000, I believed that strengthening the humanities departments was vital not only to the success of the college, but essential for Carnegie Mellon as a whole to realize its full potential," Lehoczky said. "Our faculty and students have adopted CMU's interdisciplinary ideals and are making incredible contributions to their fields and leading the humanities into the future."

To learn more about the humanities at Carnegie Mellon, watch the video at youtu.be/DFdHcQN-Chs or visit www. cmu.edu/dietrich/humanities.



MICHAEL WITMORE, DIRECTOR OF THE FOLGER SHAKESPEARE LIBRARY AND A FORMER CARNEGIE MELLON FACULTY MEMBER, DELIVERED THE KEYNOTE ADDRESS AT THE CELEBRATION OF THE HUMANITIES. CHECK OUT ANOTHER FOLGER LIBRARY CONNECTION ON PAGE 12.

## Pioneering Researchers Take Students on Tour of Computing



■ Sarah Nightingale

In 1952, IBM developed its first electronic computer, the 701. During the next three years, IBM sold 19 such machines to research laboratories, aircraft companies and the U.S. government.

A lot has changed since then.

This spring, members of the Carnegie Mellon in Qatar campus took a tour of the information age through the seminar course "Perspectives in Computer Architecture," and a distinguished lecture series open to the wider community. Some of their guides were among the pioneers of computer science.

Among them was Chuck Thacker, a technical fellow at Microsoft Research who helped design and build the Alto, considered to be the first modern personal computer.

Thacker also co-invented the Ethernet local area network, a technology for connecting computers that is still used today. In 2009, Thacker received the Turing Award, which is recognized as the Nobel Prize of Computing.

Thacker described to students during the course of two lectures how computers emerged from a few post-war laboratories to become an indispensable part of our lives. He spoke about the technologies that have enabled computers to become smaller, faster and more usable. He also highlighted important challenges, including a slowing down in the progress as computer scientists begin to push up against physical laws.

Raj Reddy, the Moza Bint Nasser University Professor at Carnegie

Mellon's Pittsburgh campus, helped to organize the course with local faculty and taught two lectures on the origins of computers. Reddy, who has been a Carnegie Mellon faculty member since 1969, won the Turing Award in 1994 for his pioneering research on artificial intelligence.

"Raj has been an integral part of the development and continued success of the Qatar campus. With helping us organize this course, Raj was able to connect our students with some of the most important contributors to the information age," said Majd Sakr, associate teaching professor of computer science at Carnegie Mellon Qatar. Mohammad Hammoud, a post-doctoral fellow at the Qatar campus, also contributed two lectures to the series.

Joining the group were other distinguished researchers, including Daniel P. Siewiorek, the Buhl University Professor of Computer Science and Electrical and Computer Engineering, and Gordon Bell, one of the inaugural faculty in Carnegie Mellon's Computer Science Department, where he was a professor of computer science and engineering from 1966 to 1972. The university awarded him an honorary degree in 2010. Considered the father of the minicomputer and a pioneer in high-performance and parallel computing, Bell worked at the forefront of the "minicomputer revolution," which brought smaller and simpler computers within the reach of a larger and more diverse range of consumers.

"In me, you're getting a live historian," Bell said. "I've been very close to some of these technologies,

so I can give a personal perspective."

#### **Inspiring Next Generation**

Kenrick Fernandes, a junior in computer science, relished the opportunity to learn about important developments from people who were immersed in the issues of the day.

FROM LEFT. CHUCK THACKER, RAJ REDDY AND GORDON BELL WERE AMONG RECENT COMPUTER SCIENCE GIANTS WHO LECTURED AT CARNEGIE MELLON QATAR IN RECENT WEEKS.

"It was humbling to find out that a lot of this technology has been around since before we were born, and it has just become more developed over time," Fernandes said. "For example, we think of parallelism — the idea of combining computers to solve some of the world's great problems — as a relatively new idea, but Gordon Bell has been working on this since the 1970s."

This spring's seminar course wasn't the only opportunity for students to interact one-on-one with renowned computer scientists.

Takeo Kanade, the U.A. and Helen Whitaker University Professor at Carnegie Mellon and one of the world's foremost researchers in robotics, taught an introductory course on computer vision.

Kanade, whose research on artificial vision has applications in autonomous vehicles, facial recognition, medicine, digital cameras and many other areas, enjoyed being a direct link between students and technologies.

"Students often see a theorem or a technology in a textbook and wonder 'how was that invented?' But to the people who have invented them people who have a lot of experience it's a natural flow of thinking. It's a great experience for students to be able to talk directly to people and find out how they did what they did," Kanade said.

In addition, Thacker, Reddy, Bell and Kanade each delivered distinguished lectures to faculty, staff, students and the wider community.

"These speakers have been inspirational to our students and younger faculty members. I am delighted to have hosted them on campus and hope they will join us again in the coming years," said Ilker Baybars, dean of Carnegie Mellon Qatar.

## Opening Lines of Communication



THE HONORS OF OFFICIALLY OPENING THE NEW GLOBAL COMMUNICATION CENTER (GCC), A NEW TUTORING RESOURCE IN HUNT LIBRARY. THE GCC SUPPORTS STUDENTS' EFFORTS TO IMPROVE THEIR WRITTEN, ORAL AND VISUAL COMMUNICATION SKILLS. PICTURED AT THE RIBBON-CUTTING ARE (L-R) GCC TUTOR SARAH MILLER, GCC ASSOCIATE DIRECTOR DIANA AWAD SCROCCO, DIETRICH COLLEGE DEAN JOHN LEHOCZKY, GCC DIRECTOR JOANNA WOLFE, KAMLET, ENGLISH DEPARTMENT HEAD CHRIS Neuwirth, Dean of University Libraries Gloriana St. Clair, Vice PROVOST FOR EDUCATION AMY BURKERT AND GCC TUTOR BEN SHEDLOCK. FOR MORE INFORMATION ABOUT THE CENTER, VISIT WWW.CMU.EDU/GCC/.

## Sleep On It

#### **Brain Imaging Shows How Unconscious Processing Improves Decision-Making**

#### ■ Shilo Rea

When faced with a difficult decision. it is often suggested to "sleep on it" or take a break from thinking about the decision in order to gain clarity.

But new brain imaging research from Carnegie Mellon, published in the journal "Social Cognitive and Affective Neuroscience," finds that the brain regions responsible for making decisions continue to be active even when the conscious brain is distracted with a different task. The research provides some of the first evidence showing how the brain unconsciously processes decision information in ways that lead to improved decision-making.

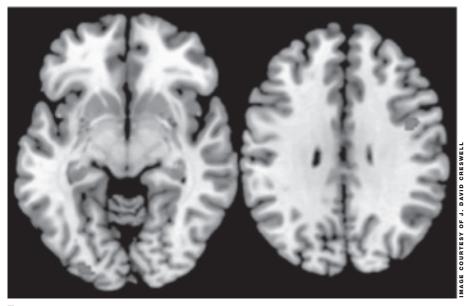
"This research begins to chip away at the mystery of our unconscious brains and decision-making," said J. David Creswell, assistant professor of psychology in CMU's Dietrich College of Humanities and Social Sciences and director of the Health and Human Performance Laboratory. It shows that brain regions important for decision-making remain active even while our brains may be simultaneously engaged in unrelated tasks, such as thinking about a math problem. What's most intriguing about this finding is that participants did not have any awareness that their brains were still working on the decision problem while they were engaged in an

unrelated task."

For the study, Creswell, recent CMU graduate James K. Bursley and Northeastern University's Ajay B. Satpute presented 27 healthy adults with information about cars and other items while undergoing neuroimaging. Then, before being asked to make decisions about the items, the participants had to complete a difficult distractor task - memorizing sequences of numbers — to prevent them from consciously thinking about the decision information.

The results included three main findings. First, the team confirmed previous research demonstrating that a brief period of distraction — in this case two minutes - produced higher quality decisions about the cars and other items. But did this effect occur because the distraction period provided an opportunity for the brain to take a break from decisionmaking and then return to the problem with a fresh look? Or alternatively, does the brain continue to unconsciously process decision information during this distraction period? This research supports the latter unconscious processing explanation.

When the participants were initially learning information about the cars and other items, the neuroimaging results showed activation in the visual and prefrontal cortices, regions that are



THE IMAGE SHOWS UNCONSCIOUS ACTIVITY IN TWO PARTS OF THE BRAIN, THE LEFT VISUAL CORTEX AND RIGHT PREFRONTAL CORTEX.

known to be responsible for learning and decision-making. Additionally, during the distractor task, both the visual and prefrontal cortices continued to be active — or reactivated — even though the brain was consciously focused on number memorization.

Third, the results showed that the amount of reactivation within the visual and prefrontal cortices during the distractor task predicted the degree to which participants made better decisions, such as picking the best car in the set.

"We all face difficult problems

we need to solve on a regular basis," Creswell said. "Whether it's buying a new car, finding a new apartment to rent, or seeking out a new dating partner on social networking sites. This study provides some of the first clues for how our brains process this information for effective problem-solving and decisionmaking."

Bursley (DC'12), who joined CMU's Health and Human Performance Laboratory as a freshman, spent his undergraduate career working on this research and related studies. To support his work, he received a Small

## lews Briefs

#### **Pitt Honors Cohon With Honorary Degree**

Carnegie Mellon President Jared L. Cohon received an honorary doctoral degree in public service from the University of Pittsburgh in February at the Pitt Honors Convocation, where he also delivered the keynote address. His remarks focused on the future of higher education.

The first Pitt honorary degree given to a sitting CMU president, was bestowed upon Cohon in recognition of his cooperative spirit and the collaboration between the two schools.

"Jerry Cohon has been an outstanding leader for Carnegie Mellon, a committed citizen of Pittsburgh, a devoted partner of Pitt, and a wonderful friend to me," said Pitt Chancellor Mark Nordenberg. "Among many other accomplishments, he helped create an institutional culture that fostered levels of collaboration between Pitt and CMU that are unique in the world of higher education. That spirit of cooperation has made both institutions stronger and has provided a distinctive form of strength to the region."

The Honors Convocation recognizes the accomplishments and contributions of Pitt alumni, faculty, staff and students.

#### **Bakery Square Parking** at a Premium

CMU staff working at Bakery Square may need to find alternative parking. Pittsburgh City Council, acting in response to a petition from area residents and several community meetings, has approved the implementation of residential permit parking for select streets in the Point Breeze and North Point Breeze neighborhoods. Area residents urged council to make the move because the growing workforce at Bakery Square has rendered daytime street parking largely inaccessible for them.

Those parking on the affected streets will be subject to parking tickets. The affected streets are:

- North Linden Avenue, from McPherson Boulevard to Penn Avenue;
- Thomas Boulevard, from Fifth Avenue to North Linden Avenue:
- Fifth Avenue, from Beechwood Boulevard to Penn Avenue;
- Hastings Street, from Fifth Avenue to Selwyn Street;
- Elysian Street, from Fifth Avenue to Selwyn Street; • and Conover Road, from Hastings Street
- to Juniata Place. The closest CMU parking lot to Bakery Square is at 6555 Penn Ave., however the

university provides shuttle service to Bakery

For information on the shuttle service, go to www.cmu.edu/police/ shuttleandescort/bakery%20square%20 shuttle.html.

For information on Carnegie Mellon permit parking and alternative transportation options, go to www.cmu.edu/parking/.

For information regarding public transportation to Bakery Square, visit the Port Authority at www.portauthority.org/ paac/default.aspx.

#### **Credit Union Offers Special Rate**

Carnegie Mellon's Credit Union is offering a loan special through March 31. Take advantage of the promotional fixed rate of 7.50 percent APR and pay off those higher interest rate credit cards. Borrow up to \$10,000 for a maximum term of 48 months. Loan Amount / Maximum Term: \$2,500-\$5,000 / 36 Months \$5,001-\$10,000 / 48 Months

#### Philharmonic, Choir To Perform April 3

The Carnegie Mellon Philharmonic and choirs will come together to perform Bruckner's setting of the early Christian "Te Deum" at 8 p.m., Wednesday, April 3 at Carnegie Music Hall, Oakland. The Philharmonic also will perform Schumann's "Fourth Symphony."

This concert will showcase more than 200 current students in the world-class Carnegie Mellon Philharmonic, Repertory Chorus and Concert Choir. The philharmonic is dedicated to performing the finest works written for large orchestra while the Concert Choir is an elite, carefully auditioned vocal ensemble of the best singing musicians at Carnegie Mellon. The Repertory Chorus is open to the entire campus community and performs a wide spectrum of choral literature

Friends and alumni of the School of Music will have opportunities at this concert to celebrate the illustrious career of Robert Page, director of choral studies, who is retiring at the end of the school year.

General admission is \$5, students are free with a valid ID.

For more information, visit http://music. cmu.edu/events/9.

#### Students, Faculty Blog **About CMU Social Change** Semester

Assistant History Professor Nico Slate and Emily Mohn Slate, a special instructor in the English Department, are leading a group of 10 students on a trip to Qatar and India for the CMU Social Change Semester. Their goal is to lean how to make positive changes in the world by partnering with groups and

# Undergraduate Research Grant (SURG) and Summer Undergraduate Research Fellowship (SURF). Bursley also received a Rothberg Research Award in Human Brain Imaging, made possible by Carnegie Mellon alumnus and trustee

Jonathan M. Rothberg (E'85), founder

of four genetics companies aimed at

improving human health.

"Carnegie Mellon was the perfect place to carry out this work because there's a significant focus here on pursuing new directions in mind-brain research," Bursley said. "This study is really a starting point. We also are using brain imaging to see if we find the same reactivation patterns in learning tasks

CMU's Department of Psychology has helped to establish Carnegie Mellon as a world leader in brain sciences. The university recently launched a Brain, Mind and Learning initiative to build from its research excellence in psychology, computer science and computation to continue to solve real-world problems.

that we saw here in decision-making."

For more information on how distraction improves decision-making, watch this video: http://youtu.be/eFX5S0tpTUA.

The Pittsburgh Life Sciences Greenhouse Opportunity Fund supported this research.

## In Memory

#### **International Film Festival Adds Tribute to Professor Paul Goodman**

■ Shilo Rea

The late Paul Goodman — a renowned filmmaker, psychologist and University Professor — was an active proponent of introducing global theory and a wide variety of multimedia elements into the classroom.

Goodman, the Richard M. Cyert University Professor of Organizational Psychology in the Tepper School of Business, did this because he thought a well-rounded student needed to be exposed to what is happening in the

"When students leave [Carnegie Mellon], I want them to be not just a good chemist or a good linguist," he said. "I want them to have some greater appreciation of global issues."

Goodman died Jan. 24, 2012. To honor his passion for filmmaking and advocacy for global awareness, Goodman's wife, Denise M. Rousseau, University Professor of Organizational Behavior and Public Policy at the Heinz College and Tepper School of Business, made a gift that established the "Goodman Faces of Work" component to the university's annual International Film Festival.

The permanent feature will incorporate his films with related international films. During his career,

Goodman produced more than 20 educational films and documentaries, including a three-part documentary series about work in developing countries. The films, which aired on PBS, offer new and important insight on work and production in such countries as India and Brazil, and Goodman argued that the lessons they taught could benefit American businesses open to new ideas.

The first installment of "Goodman Faces of Work" will debut at this year's festival.

"With this new component, we intend to continue Paul's legacy by reinforcing his vision of integrating the themes of globalization and the work environment into the Carnegie Mellon curriculum, which represents more than 30 professors from every college and school on campus," said Jolanta Lion, director of the film festival. "It also allows us to bring amazing new productions from all over the world to Pittsburgh — all on his behalf."

The first Goodman film screened as part of the series was "Nurse," which premiered with the festival's sneak preview of "Danube Hospital" on Feb 22. "Nurse" analyzes the daily worklife of one of the health industry's most essential employees.

The 2013 International Film Festi-

val will run from March 21 – April 13 at theaters throughout Pittsburgh.

A trio of screenings will include additional Goodman films:

"University President," Goodman's short film that focuses on a Carnegie Mellon University president in his attempt to foster connections among technology, business, and the humanities, will accompany the popular Chinese film "Crocodile in the Yangtze." Screening on Friday, March 22, "Crocodile in the Yangtze" tells the story of the slow yet victorious rise of entrepreneur Jack Ma and his journey building the first Chinese Internet startup company.

"The Lobsterman," a story about a beloved veteran and father who worked as a self-employed lobsterman for 65 years, will screen on March 24 before the showing of the Japanese film "Sushi: The Global Catch."

"Chinese String Quartet," which highlights a group of University of Singapore musicians with entrepreneurial spirits, will play on April 6 before "Fame High," an American film about talented high school students who aspire to become professional artists.

For complete details on CMU's 2013 International Film Festival, the Goodman Faces of Work series and ticket information, visit www.cmu.edu/faces.

organizations that are already making a difference.

The trip began in January in Doha, Qatar, where the students taught migrant workers from South Asia English. In exchange, they learned about the inequalities of travel in order to recognize the privilege of studying abroad in a world where many only travel out of necessity.

Stay up-to-date with what the students are doing and learning this semester by reading their blog at http://socialchangesemester.org/.

#### Save a Life: AED Training Class Scheduled

AED training class has been scheduled for those who have never had the training or for those whose certifications have expired or are about to expire. The class is:

 April 12, 10 a.m., Dowd Room, University Center

To register, go to www.cmu.edu/ehs and click on the Training tab at the top of the page, then go to AED Training. The link to the registration page is at the end of the course description. The class is open to all students, faculty and staff. Class size is limited, so register early.

#### Volunteers, Presenters Needed for April 25 Event

Staff Council is recruiting presenters and volunteers for Take Our Daughters and Sons to Work Day on Thursday, April 25. This annual program gives staff and faculty children between the ages of 8 and 15 an opportunity to see a wide range of career and learning opportunities at Carnegie Mellon

If you would like more information or would like to be included as a possible presenter in 2013, please contact Alicia Angemeer at adbrown@andrew.cmu.edu by March 22. If you would like to volunteer at the event, please contact Gloria Gruber at ggruber@andrew.cmu.edu.

#### Brown Joins Rwanda Faculty

Timothy X. Brown, a professor in computer and energy engineering, has joined the faculty at Carnegie Mellon in Rwanda. His research interests include adaptive network control, machine learning and wireless communication systems. Brown's projects include the role of mobility in network control of unmanned aircraft, denial of service vulnerabilities in wireless protocols, spectrum policy frameworks for cognitive radios, and indoor wireless network performance. He is a recipient of an NSF CAREER Award,

and the GWEC Wireless Educator of the Year Award. Previously, he was director of the Interdisciplinary Telecommunications Program at the University of Colorado, Boulder. He received his bachelor's degree in physics from Penn State and his Ph.D. in electrical engineering from California Institute of Technology in 1990.

#### AkzoNobel North America Recognizes Matyjaszewski

Krzysztof Matyjaszewski, the J.C. Warner Professor of the Natural Sciences in the Mellon College of Science, has been named the first recipient of the AkzoNobel North America Science Award for his cuttingedge polymer chemistry research. The award is given by AkzoNobel, the world's largest paints and coatings company, and the American Chemical Society (ACS), the world's largest scientific society. The AkzoNobel North America Science Award was created to recognize outstanding scientific contributions by an individual in the fields of chemistry and materials research conducted in the U.S. or Canada.

#### **Mutlu Appointed to Chair**

Onur Mutlu has been appointed the Dr. William D. and Nancy W. Strecker Early Career Professor in the Department of Electrical and Computer Engineering.

Mutlu, who directs the SAFARI research group at CMU, says his group is researching how to make computing platforms and chips — from those used in mobile systems to those used in large-scale data centers — much more energy-efficient, predictable, robust and capable. A major focus of his group is developing microprocessors, computer memories and platforms that can efficiently, quickly and reliably store, manipulate and communicate massive amounts of data. To do this, Mutlu's group is rethinking how computer memory should be designed.

#### Stanton Recognized By Graphic Arts Industry

Anthony Stanton, teaching professor of graphic media management and director of the Graphic Media Management Program at the Tepper School of Business, has been named the recipient of the 2013 Michael H. Bruno Award by the Technical Association of the Graphic Arts (TAGA). The award is given annually for outstanding contributions to the Graphic Arts industry and in recognition and appreciation of dedicated service in the field. TAGA is an international organization of technologists, scientists, technical and production personnel in the printing and allied industries. Stanton received the award at TAGA's 65th Annual Technical Conference Feb. 5 in Portland, Ore.

## Artistic Alumna Personifies CMU's Interdisciplinary Culture

#### ■ Stephanie Williams

While birds of a feather may flock together, artist Missy Hammond Dunaway (BHA'10) draws inspiration from talking to engineers or studying Shakespeare.

Her interdisciplinary nature can be seen in a series of her paintings focusing on feathers — the largest of which, "Pictorial Encyclopedia of Shakespearean Birds," was recently acquired by The Folger Shakespeare Library in Washington, D.C.

Dunaway has truly distinguished herself in the difficult world of painting.

"I try to look outside of myself for ideas because, honestly, there are things in the world more interesting than artists. I read a lot, usually favoring Arthurian romances, National Geographic and the news, and I like to travel and be outdoors."

She recently shared her portfolio with her CMU mentor, Scott Sandage, associate professor of history.

"I was blown away. It's hard to



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HAMMOND DUNAWAY

AND HER ARTWORK ONLINE AT HTTP://ARTISTMHDUNAWAY. WORDPRESS.COM/.

describe how cool and provocative her painting was," Sandage said. "She is naturally a quiet person, more of a listener than a talker. But she quietly goes about following her intuitions and passions in a way that I personally find inspiring."

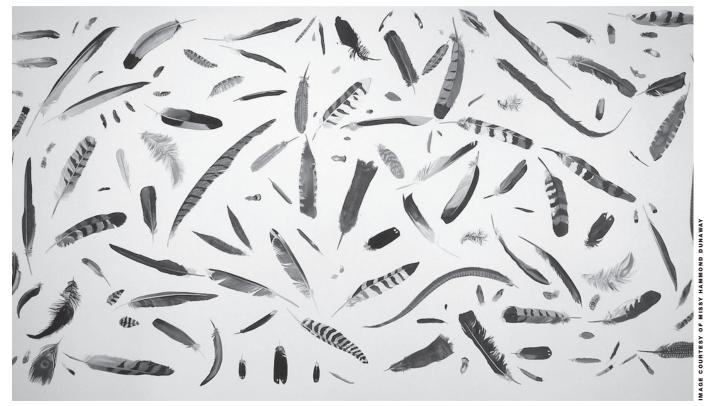
Deciding on a college path can be difficult for some, but Dunaway knew she wanted an interdisciplinary degree. She knew right away the Bachelor of Humanities and Arts program was right for her.

"I wanted to receive an education that prepared me for a career in the arts, but I was concerned that attending an art school would limit my education," said Dunaway who earned degrees in painting and material & visual culture. "I was sold when I learned that Carnegie Mellon not only allows, but encourages students to take courses in different disciplines."

She continued, "The BHA program is a true gem, both within the Carnegie Mellon community and the collegiate community at large. It amazes me that the program is so unique, because it is built upon a concept that is so natural. I was lucky to find a school that understands this and didn't force me to compartmentalize my interests."

Classes on Shakespeare's romances and comedies, Medieval literature and Arthurian legends, and Chaucer sparked her imagination.

"The writers wrap history lessons, political science theories, philosophy and cultural studies into stories that



Missy Hammond Dunaway's painting, "Pictorial Encyclopedia of Shakespearean Birds," was recently acquired by The Folger Shakespeare Library in Washington, D.C.

are thoroughly entertaining. I was so impressed by how multi-faceted these works of literature were. I tried my best to accomplish the same thing in my own art," Dunaway said.

Careful observation is the key to a great painting, and studying colors and textures are some of the many ways Dunaway assesses her work. History and culture also play a big role in making her art speak. A kind of "intellectual significance" is the theme behind her

subject matter.

"I use art as a tool to learn about subjects that interest me, and I approach my paintings like research projects," she said.

Her interest in reaching outside of her comfort zone extends beyond the classroom.

"I lived in the dorms all four years I was in college. I could never find more than one other art student on my floor, and as a result, my best friends from Carnegie Mellon are engineers and economists," Dunaway said. "Those friends always provided fresh conversations and different perspectives I could never arrive at on my own."

Formerly of Annapolis, Md., and born in Honolulu, Dunaway now lives in Brooklyn, N.Y., where she works for Gurr Johns, an art appraisal and advisory firm in Manhattan. She recently was named a Fulbright finalist.

## "The Foreigner"

#### **Exhibit Promotes Cultural Exchange Between Cleveland, Iran**

■ Pam Wigley

School of Art Professor Jon Rubin and MFA 2013 Candidate Felipe Castel-blanco have created an exhibition at the SPACES gallery in Cleveland that puts local residents in the shoes of Iranian citizens through simple mobile technology.

Cleveland residents who participate in the project will serve as real-time avatars for Iranian citizens, helping to promote exchange among these very different cultures.

It works this way: A Cleveland resident wears an earpiece through which an Iranian counterpart directs live instructions on what to do and say during a walk through various public spaces. The Iranian citizens and Cleveland avatars have been selected from all walks of life — from children to seniors —so it's possible for a local teenage girl to be the avatar for a 53-year-old Iranian woman or a 9-year-old Iranian girl can speak through a 60-year-old Cleveland man.

The goal is to help people in the United States learn about someone living in an entirely different culture, and the



At right, Walter Mahovilch, a 60-year-old Clevelander, is serving as a human avatar for Mahlab, a 9-year-old girl living in Iran. People met and spoke to Mahlab (not pictured) as she directed Mahovilch in what to say and do.

experience is happening in real time.

"The Foreigner' presents an uncanny circumstance where the separation between self and other, local and foreign, is collapsed and confused, and the geopolitical distance between the United States and Iran is made personal and local," Rubin said in describing the

exhibition.

The public can witness the unique cultural exchange through April 6 at Tower City Center, 230 W. Huron Road, in Cleveland. A schedule is available at www.spacesgallery.org/project/the-foreigner#.