



the PIPER

CMU'S NEWS SOURCE FOR FACULTY & STAFF

12/12 ISSUE

Carnegie Mellon University

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Magical Madrigal



PHOTO BY TIM KAULEN

KAREN STUMP, DIRECTOR OF UNDERGRADUATE STUDIES AND DIRECTOR OF LABORATORIES FOR CHEMISTRY, WAS AMONG THE PERFORMERS AT THIS YEAR'S MADRIGAL DINNER. MORE THAN 300 GUESTS ATTENDED.

Murder Mystery

Solving Mock Crimes Allow Novel Interactions

■ Heidi Opdyke

It's not always the butler who did it. One year it was Amy Burkert.

That year, Burkert, vice provost for education, pitched the idea of a Biology Murder Mystery Dinner to then-department head Bill Brown to foster student-faculty interaction and aid development of the departmental community.

And it's worked.

For a number of years the Biological Sciences Student Advisory Council (Bio-SAC) has hosted death as a departmental initiative with its interactive Murder Mystery Dinners early in the spring semester. A public show will take place

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Giving Back

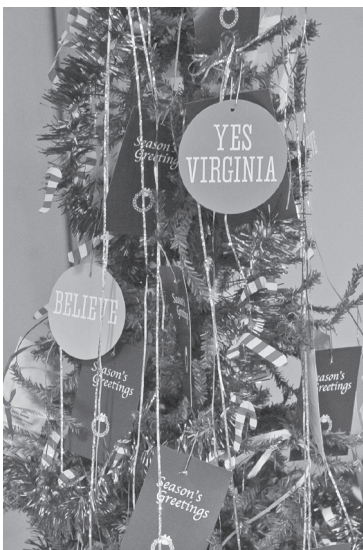


PHOTO BY KEN ANDREYO

TOYS FOR TOTS IS JUST ONE WAY THAT CMU GIVES BACK TO THE COMMUNITY THIS TIME OF YEAR. LEARN MORE ABOUT THIS AND SOME OF THE OTHER EFFORTS AT CMU ON PAGES 6 AND 7.

Presidential Update

Cohon Speaks Candidly with Staff

■ Bruce Gerson

At Staff Council's Open Forum with the President in late November, President Jared L. Cohon covered a range of topics, from the ongoing presidential search to university growth in Pittsburgh and around the world.

Cohon began the session by answering a pre-submitted question about the presidential search that began last February with the naming of the search committee. He said the search committee, which consists of nine trustees and eight faculty, have "worked through several hundred names" and that the list is now down to "about a dozen or so." He said the committee will be conducting interviews in the coming weeks. President Cohon said faculty, staff and student representatives would be selected to meet with final candidates next semester.

Carnegie Mellon's ninth president is

expected to be named in the spring, a few months before President Cohon's term expires on June 30, 2013.

Cohon switched gears from the presidential search to discuss the Pittsburgh campus and international university locales. He noted the Pittsburgh campus master plan was approved by City Council earlier this year and said there were no definite plans yet for land acquired along

Forbes Avenue and to the north of Forbes. He said it would most likely be developed into a "mixed-use" site with academic buildings, another business incubator like the Robert Mehrabian Collaborative Innovation Center, a hotel and retail space in the area.

In the future, he said he expected the

CONTINUED ON PAGE FIVE

INI Team's iSports App Wins ESPN Hackathon for Women

■ Ann Lyon Ritchie

An image is worth a thousand words, but a new Android app created by Carnegie Mellon graduate students can take a video and give you even more.

Ditaya Das, Pooja Gada and Divya Natesan, students in the Information Networking Institute's bicoastal master's degree program, won the espnW Hack Day for female developers last month at Stanford, Calif., with their iSports app. The Android app can be used for watching sports highlights on YouTube or ESPN.com.

It uses image recognition to identify players in the video and show facts, such as biographical information and player-related statistics using the ESPN API (application programming interface). It displays a player's measured influence over social media using the Mashery API and it mines for tweets by the player and provides other relevant YouTube video recommendations.

The trio won best in show and placed first in the category of best use of the Mashery API. The three second-year information technology grad students are at the Silicon Valley campus (CMU-SV) this fall.

"These hackathons provide us an avenue to implement novel ideas from the concepts we studied in our coursework," Natesan said. She and her team members are enrolled in a practicum, which is a capstone project that allows students to work for a corporate client

in Silicon Valley on a real-world project.

"I'm delighted with the creative and innovative app developed by the team, including how they were able to take advantage of the image recognition techniques they had already explored for their practicum," said Ole J. Mengshoel, associate research professor at CMU-SV who advised the team on their practicum.

The audience of more than 200 at Hack Day was entertained and often broke into spurts of laughter as the women presented their idea for iSports with a healthy dose of humor. They recognized the app as useful and an innovative

approach to watching sports videos.

"There was constant tweeting about the app and our presentation in progress," Das said.

The team's prizes include a trip to ESPN's campus in Bristol, Conn., two tickets for each student to any U.S. sporting event and a Jawbone Big Jam-box wireless speaker. The team also is featured in an article in Wired Magazine ("Female Developers and Athletes Take the Leading Role at espnW Hack Day"). Among other benefits, the students gained insight and new relationships with the many professionals at the event.

"It was such an amazing experience," Gada said. "We got to meet and network with so many people in Silicon Valley."

"The professional opportunities in the Silicon Valley region have been invaluable to our students," said INI Director Dena Haritos Tsamitis, who credited the faculty and staff at the Silicon Valley campus for working to connect the students with competitions and other workshops.

The hackathon was held by ESPN in partnership with Stanford University, Facebook, Twitter, YouTube, Twilio and Mashery.

Competition & Learning

Students Win When Challenged Outside the Classroom

■ Piper Staff

Students are taking what they learn in the classroom and putting it to the test in national and international competitions. And it's paying off.

In the last year, CMU students have been recognized for advances in areas such as synthetic biology, architecture, math and security hacking, to name a few.

Mathletes Make Mark

In March 2012, a team made up of then first-year Knaster-McWilliams Scholars Michael Druggan (S'15), Albert Gu (S'15) and Archit Kulkarni found out that they placed second in the Mathematical Association of America's William Lowell Putnam Competition, the premier mathematics contest for undergraduate students.

The competition took place once again on Dec. 1 of this year, when during a six-hour math marathon 135 CMU students attempted to solve 12-complex mathematical problems, using a combination of concepts taught in college mathematics courses paired with creative thinking. Results won't be determined until March.

Po-Shen Loh, assistant professor of mathematical sciences and the team's coach, teaches a 3-credit course in the fall preparing students for the experience. More than 120 students from across the university were enrolled in the class.

"This is the road to getting all of those great internships and excelling in normal math classes," Loh said of the course. "You develop the generic ability to solve problems and understand concepts, and then when you go to take an advanced class in graduate math, you will be better equipped for it."

For Loh and John Mackey, a teaching professor and associate department head of math who previously taught the class, the end goal is having

more of the top high school mathematicians interested in CMU. While they may not all be math majors, many of those students go on to study engineering, computer science, physics or more.

Premier Programmers

Members of CMU's computer programming teams, who compete in the Association for Computing Machinery's International Collegiate Programming Contest (ACM-ICPC), spend five to 10 hours a week practicing prior to competitions, said Danny Sleator, professor of computer science and a team coach.

The practice time, as well as the time spent on weekly online

"There's a very nice feeling you get from turning your ideas into something concrete, and then seeing it actually work," he said.

In addition to Sleator, the team coaches included Richard Peng and Dong Zhou, both Ph.D. students in Computer Science. IMC Financial Markets sponsors the CMU teams.

"Capture the Flag"

Two teams of undergraduates finished first and second in the finals of the Cybersecurity Awareness Week's (CSAW) Capture the Flag (CTF) competition in November at the Polytechnic Institute of New York University, billed as the world's largest student hacking contest.

CTF is a computer security wargame in which teams try to break into opponents' computer systems while defending their own. Each contest can last 24-48 hours, continuously around the clock. The oft-victorious Plaid Parliament of Pwning (PPP) teams, coached by David Brumley, assistant professor of electrical and computer engineering (ECE), participate in six to 10 competitions each semester and travel to five distant competitions — two in South Korea and one each in Russia, New York City and Las Vegas — each year.

"If you're interested in computer security and you want to do things legally, there aren't that many other opportunities to gain practical experience," Tyler Nighswander (CS'13) said of CTF.

The competitions provide hands-on experience that can't be duplicated in a classroom, he said. More than that, however, the competitions provide extra motivation for tackling some pretty challenging academic subjects.

The PPP1 team — Nighswander, Alex Reece (CS'13), John Davis (CS'13) and Maxime Serrano (E'15)

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Asian Tour

Cohon Visits Alumni; Celebrates New Partnership in China

■ Piper Staff

During a whirlwind 12-day Asian tour of eight cities, President Jared L. Cohon met with alumni and introduced a new Carnegie Mellon tradition. At each stop, guests toasted with Quaichs, pronounced “quakes,” which are small, two-handled drinking vessels native to Scotland. Hosts would keep Quaichs in their homes to welcome guests or bid them farewell.

The recent trip included stops in Beijing, Guangzhou, Hong Kong, Shanghai, Singapore, Taipei, Tokyo and Seoul. During a trip to Asia last February, Cohon received an honorary degree from the Korean Advanced Institute of Science and Technology (KAIST) in Daejeon, Korea.

The university has much to celebrate, including a new College of Engineering (CIT) partnership in China.

CMU Joins Sun Yat-sen

A new joint graduate engineering program, the Joint Institute of Engineering, is being developed by CMU and Sun Yat-sen University in Guangzhou, China. A Nov. 12 ceremony celebrated the partnership and launched the Shunde International Joint Research Institute (JRI) with Shunde District, Foshan City, as a complement program of the JIE.

“We are honored to partner with Sun Yat-sen University, as its distinguished history and educational strengths make it one of China’s leading institutions,” Cohon said. “We look forward to bringing CMU’s strengths in innovation, technology and creative problem solving to the institute, which we hope will be the beginning of a long and productive collaboration between our two universities.”

SYSU President Xu Ningsheng,



CMU PRESIDENT JARED L. COHON SHAKES HANDS WITH SYSU PRESIDENT XU NINGSHENG IN CELEBRATION OF A NEW JOINT ENGINEERING PROGRAM.

who led the program’s ceremonial launch, said they selected CMU because its great academic and research reputation is well suited to China’s vision of transitioning its economy from mass labor to technology-driven initiatives within the next decade and fostering future technology leaders with an innovative and entrepreneurial mindset.

The mission of the Joint Institute of Engineering (JIE) will be to further world-class education in engineering and perform cutting-edge research in China.

“This is a great opportunity for Carnegie Mellon to expand on its global presence. The education and research program will focus on many important areas so endemic to Carnegie Mellon to help build a top-notch engineering program in China,” said Jimmy Zhu, the ABB Professor of Engineering and head of CMU’s Data Storage Systems Center (DSSC), who is co-heading the new JIE.

The SYSU community is excited to explore a new and effective model for engineering education with CMU.

“We hope that the future success of the JIE will form a new effective way in engineering education for SYSU,” said Professor Li Wenjun, the assistant to the president of SYSU who will co-head the JIE effort with Zhu.

SYSU and its local community are expecting that the JIE and JRI will help local research communities and industries to carry out innovative research and product development, solving the practical engineering problems that will help lead local industry improvement.

SYSU is located about 100 miles northeast of important trade and economic centers like Hong Kong and

Macau, giving it access to the Asia-Pacific region’s most vital business hubs.

“We see this joint institute as a way to enhance engineering education in China, develop innovative engineering education programs and educate tomorrow’s leaders,” said Vijayakumar Bhagavatula, CIT interim dean.

CMU’s relationship with China is longstanding, and the university has more than 800 alumni in China. In 1919, the university granted its first Ph.D. in civil engineering to Mao Yisheng, a pre-eminent engineer who designed China’s two most famous bridges — the Qiantang River Bridge near Hangchow and the Yangtze River Bridge in Wuhan.



KAIST PRESIDENT NAM PYO SUH (E'64, H'08) TOASTS FELLOW CMU ALUMNI DURING AN EVENT IN SEOUL, KOREA.

WE ARE MAKING A DIFFERENCE. CARNEGIE MELLON HAS CROSSED THE \$1 BILLION MILESTONE OF OUR INSPIRE INNOVATION CAMPAIGN. BUT WE ARE NOT DONE YET. THANKS IN PART TO THE SUPPORT OF THE CMU CAMPUS COMMUNITY, WE ARE EXPERIENCING THE AMAZING IMPACT THE CAMPAIGN HAS GENERATED ACROSS THE ENTIRE UNIVERSITY. VISIT CMU.EDU/CAMPAIGN FOR THE LATEST CAMPAIGN NEWS AND PROGRESS, OR TO MAKE YOUR GIFT TODAY. PROGRESS SINCE NOVEMBER 1, 2012: \$7,940,877.

PHOTO BY AAMIR ANWAR

PHOTO COURTESY OF SUN YAT-SEN UNIVERSITY

International Aid

Help is Available for Students Interested in Global Experiences

■ Abby Simmons

For the first time in 15 years, Adelaide Agyemang (A/DC'14) went home last summer.

Born in Kumasi, Ghana, Agyemang and her family immigrated to New Jersey when she was four years old.

Travel costs prevented her seven-member family from visiting their relatives.

Financial resources also presented challenges for trustee Larry Jennings Jr. (S'84, TPR'87), who worked throughout his time at CMU to supplement his financial aid package. It was only after launching a successful career in the financial sector that he was able to travel internationally.

Jennings observed the transformational experience his youngest daughter, June, had during a trip to India. Drawing on that trip and Pittsburgh writer David McCullough's book "Brave Companions," he and his wife, Katherine, established the Jennings Brave Family Companions Fund through the Undergraduate Research Office (URO). The fund annually provides four to 10 sophomores and

juniors up to \$6,000 each to experience the cultural and socio-economic issues facing a developing country. Preference is given to students who have demonstrated financial need and/or have not traveled abroad previously, along with



ONLINE

AGYEMANG'S BLOG: [HTTP://DISCOVERGHANA.WORDPRESS.COM](http://discoverghana.wordpress.com)

URO: [WWW.CMU.EDU/URO](http://www.cmu.edu/uro)

OIE: [WWW.CMU.EDU/STUDYABROAD](http://www.cmu.edu/studyabroad)

several other criteria.

"International experiences can shape your thinking, help you with graduate school and your direction in life," Jennings said to 2012 recipients at a recent lunch.

Before departing, Agyemang, a recipient of Jennings' generosity, wrote in her blog, "As a child, I wanted to be an all-American girl more than I wanted to be a faerie, a princess, a witch, or a knight.... I am often terrified that my family in Ghana will reject my Westernized self with the same cold finality

that I abandoned them with when I was younger."

Agyemang's grandfather and three uncles eased her apprehensions at the airport when they draped a cloth over her shoulders with "Akwaaba," the

Twiford word for "welcome," on it. They opened their homes to her, and she observed village life from the vantage point of her aunts' grocery store.

Agyemang, a sophomore in art and philosophy, also took courses in government and politics, African storytelling and service learning at the University of Ghana at Legon. Her service-learning course included volunteer work at a nongovernmental organization that taught Ghanaians how to develop small businesses.

"This experience helped me to

decide that I want to integrate public policy and art into my career," Agyemang said.

Recipients of Brave Family Companions funding also receive a Small Undergraduate Research Grant. Agyemang is working with History Department Professor Edda Fields-Black to develop a performance art piece based on African folk tales for the Meeting of the Minds undergraduate research symposium on May 8.

Helping Students To Obtain Funding

The Office of International Education (OIE) reports that 154 undergraduate and graduate students traveled abroad last summer, accounting for approximately 27 percent of all students who completed international experiences during the 2011-2012 academic year.

Institutional, state and federal financial aid is generally not applicable to summer study abroad, so finding other funding sources is a necessity for many students.

CONTINUED ON PAGE ELEVEN

Service Learning

Symposium Shares Best Practices for Combining Volunteerism with Education

BEST PRACTICES

Interested in starting a service-learning course?

Here are some tips:

- **Select great community partners.**
- **Set a timeline and milestone structure for all projects and teams.**
- **Allow timeline and milestones to be stable yet flexible.**
- **Identify indicators that students are mistaking the client's project for their own.**
- **Manage team dynamics with built-in peer reviews.**
- **Follow-up with students a year or so later to see how the experience helped with their continued education and/or career.**

For additional resources visit, www.cmu.edu/gelfand/.

■ Shilo Rea

When Nico Slate joined the History Department, he knew that Carnegie Mellon was a leader in technology. Today, four years later, he knows CMU uses that expertise to help communities and organizations through a robust focus on service learning.

CMU has been recognized by the President's Higher Education Community Service Honor Roll for the past five years. During the 2011-2012 academic year, students contributed 202,296 community service hours through courses and volunteer activities.

"There are so many wonderful service-learning initiatives on campus — from Modern Languages to the Robotics Institute," Slate explained. "The challenge is to foster conversations and collaborations across projects."

With that in mind, Slate organized the "Media, Technology and Service Learning Symposium."

Sponsored by the Center for the Arts in Society and the Leonard Gelfand Center for Service Learning and Outreach, approximately 50 faculty, staff and students gathered to share ideas and look for ways to collaborate.

The symposium's attendees — ranging from Eberly Center staff and School of Computer Science faculty to Department of Modern Languages faculty and others throughout campus — shared ideas and asked advice on starting community-focused projects.

Marielle Saums, a senior majoring in Global Studies, shared how the student service organization Juntos used GigaPan technology to document communities in Nicaragua.

"I joined the group my sophomore year because I wanted to be involved with community work that had an international connection and impact," Saums said. She credited several professors including Slate, Karen Faulk, John Soluri and Therese Tardio for helping her frame coursework in a community service context and give it new relevance. "All academic areas, from chemical engineering to fine art, have a community impact, so students from all backgrounds can benefit from a service focus."

Information Systems (IS) — at the undergraduate level in the Dietrich College and graduate level through the Heinz College — has made service learning a core part of the academic program. Professors Joe Mertz and Jeria Quesenberry shared their experiences at the symposium, stressing that service learning should provide clear and definite community service while maintaining discipline-relevant learning goals for students.

"Our goal with the projects is to expand a community partner's capacity to use technology to better meet their mission — not just build them a system," said Mertz, associate teaching professor of information systems.

Quesenberry explained how all IS students take a course their senior year in which they partner with a community client. Student teams have completed projects for Best of the Batch Foundation, Light of Life Ministries, Free Ride Pittsburgh, FBI Cyber Forensics Unit and many more. There is even a global element — several projects have provided service for international organizations, and the course also is taught at Carnegie Mellon Qatar.

"Challenges that we face include students mistaking the client's project as their project, managing team dynamics and the long-term survivability and maintenance of the projects," said Quesenberry, assistant teaching professor of information systems. "But, we're able to put in processes to help mitigate those."

She added, "It's wonderful to be at Carnegie Mellon where so many people are doing so much with service learning."

Ideas discussed at the symposium included creating a database of all of the university's service learning projects and establishing a formal system to follow up with students on their experiences.

"Once we have a database set up," Slate said, "the next step will be to create a process to keep it continually updated. The rate of innovation on campus is so high that new service initiatives are sprouting up all the time. That is why this is such an exciting place to be for someone interested in service learning."

Standup Alumnus

Qatari Comedian Shares Cultural Insights

■ Sarah Nightingale

Mohammed Fahad Kamal is a 23-year-old Carnegie Mellon Qatar graduate who is a senior business planner for Qatar Petroleum.

But he's better known as the first Qatari comedian, or as he puts it, the first who's actually trying to be funny.

His degree in business administration helped him become funnier, he said, and he's not joking. Business school helped him learn to be a great presenter, to look people in the eye, and to keep his audience hanging on every word ... until he delivers that perfectly timed punch line.

His day job starts at 6:30 a.m. It makes it hard to connect with some friends.

"When my friends call me at 10 p.m. to go out for dinner, I tell them I'm sleeping," he said.

Like many comedians, Kamal started by telling jokes to a couch-full of family and friends. Two years ago, just for a laugh, he entered an open-mic competition organized by the Doha Film Festival.

He didn't win, but he did meet Bilal Randeree, an Indian who grew up in South Africa. The two started a comedy troupe, which they called Stand Up Comedy Qatar (SUCQ). The troupe supports comedy in the region by developing up-and-coming comedians and hosting events and tours. Beyond that, the organization brings together Qatar's different communities and breaks down



MOHAMMED FAHAD KAMAL RECENTLY PERFORMED AT "COMEDY SHOWDOWN: TEAM QATAR VS. TEAM EXPAT" AT CARNEGIE MELLON QATAR, WHICH DREW NEARLY 600 PEOPLE.

PHOTO COURTESY OF CARNEGIE MELLON QATAR

he said, because he got a better offer. Or was it because he had an exam the next day?

Yes, that was it — an exam.

Kamal said he'd like to tour in America or Europe, but worries his humor won't export; that it makes better sense for people who live in Qatar.

For many of his fans, it's the culture clash jokes that are the funniest. Like his joke about a Qatari-American running for U.S. President, which he

Presidential Update

CONTINUED FROM PAGE ONE

Pittsburgh campus footprint to extend north to Fifth Avenue.

Cohon noted the Qatar campus added a biological sciences major to its curriculum, Silicon Valley's growing Ph.D. and research programs, and the "good start" in Rwanda with 26 information technology master's degree students.

He spoke of the Heinz College master's degree programs in public policy and information systems in Adelaide, Australia, and commended their creative recruiting efforts. The applicant pool at the Heinz College in Pittsburgh is "enormous," he said, and some prospective students are being given the opportunity to spend one year in Adelaide with the second year in Pittsburgh. He said the response has been strong.

Two new international partnerships are in progress in India and China. In India, CMU is partnering with Shiv Nadar University to offer undergraduate electrical and computer engineering and mechanical engineering programs. Students, who will spend the first and third years in India and the second and fourth in Pittsburgh, will receive degrees from both universities. The program is set to start off on a very small scale next fall.

In China, CMU is teaming with Sun Yat-sen University, one of the top 10 Chinese universities, to offer a graduate engineering program. The Joint Institute of Engineering will help China transition its economy from labor-intensive manufacturing to technology-driven industry. Cohon said CMU will provide the curriculum and hire and train faculty.

One staff member asked President Cohon about the university's financial outlook.

"We're in good shape. Last year we ended with another surplus, which reflects our strong revenue sources and good cost control by everyone," he said.

He said that the Inspire Innovation Campaign is on pace to achieve the \$1.2 billion mark by June 30.

After leaving office, President Cohon said he plans to return to teaching in the departments of Civil and Environmental Engineering and Engineering and Public Policy.

"I'll do this with trepidation, more so than when I became president. I haven't taught in 15 years, so it remains to be seen if I still have what it takes to meet Carnegie Mellon's very high standards," he said.

Staff Council hosts an open forum each semester to give staff the chance to speak candidly with the President. The spring semester forum is scheduled for March 27.



KAMAL'S VIDEOS HAVE BEEN VIEWED MORE THAN 40,000 TIMES. CHECK THEM OUT AT: WWW.YOUTUBE.COM/USER/MOHAMMEDCOMEDY

cultural barriers through laughter.

While Kamal comes from what he calls a "very progressive" family, he is, in many ways, a traditional Qatari. He dresses in the thobe (a long white shirt worn over white pants) and headscarf; he had his pick of jobs upon graduation; and he owns the quintessential Qatari vehicle. (No, not a camel, a white Toyota Land Cruiser.)

The secret to making people laugh, Kamal said, is to tell the truth, but exaggerate it. Like his Land Cruiser jokes. (The first thing you have to know about comedy in Qatar is that Arabs — in white Land Cruisers — have a questionable reputation when it comes to driving.) It helps when you're making fun of your own country.

Kamal never thought people would actually pay money to see him perform, but since 2010 he's toured in Dubai, Jordan, Kuwait and Saudi, where comedy is still underground.

While he was studying in Pittsburgh last summer, he had the chance to perform in New York. He turned it down,

opened with at a recent show at Carnegie Mellon Qatar.

"If you vote for me..." Kamal begins in his thickest Qatari accent, "... not the other guy ... I will buy every American family a Land Cruiser.

(He pauses for effect.)

"And if you vote for me ... not the other guy ... every American man will have four wives."

Kamal pokes fun of Qataris and expats; men and women; current affairs and tradition. The only things that are truly off limits, he said, are religion, anything "too sexual" and fat jokes.

Even his parents feature in his acts, like in a conversation Kamal reenacted during his Carnegie Mellon show.

Neither of his parents has been to a SUCQ show, he said, but they watch his videos online. And his father, a renowned dermatologist, will even suggest jokes at his own expense.

But they'd rather he keep his day job, which is fine with Kamal, since Qatar's comedy scene isn't lucrative enough to pay the bills.

Giving Back

University Faculty, Staff, Students Offer Thanks, Assistance

This time of the year the Carnegie Mellon community finds more ways than ever to give back. Read about a handful of recent efforts below.

Taking the Plunge

FROM LEFT: CMU OFFICER DAN JANEDA, HIS WIFE, SHAINA, OFFICER STACY GRIFFIN AND DISPATCHER HEATHER O'BRIEN RAN INTO THE ALLEGHENY RIVER NEAR HEINZ FIELD ON SUNDAY, DEC. 2, AS PART OF THIS YEAR'S PITTSBURGH POLAR PLUNGE, A FUNDRAISER FOR THE SPECIAL OLYMPICS OF PENNSYLVANIA, WHICH RAISED MORE THAN \$300,000. THIS IS THE SECOND YEAR THE DEPARTMENT HAS PARTICIPATED. CMU RAISED \$6,468 AND PLACED SIXTH IN DONATIONS OUT OF 140 TEAMS.

MEMBERS OF THE DEPARTMENT ALSO VOLUNTEERED THEIR TIME AND ASSISTED WITH REGIONAL SPECIAL OLYMPICS COMPETITIONS LAST SPRING. IN SEPTEMBER, A SPECIAL OLYMPICS SEMINAR WAS HOSTED ON CAMPUS FOR 40 VOLUNTEERS WHO RECEIVED TRAINING IN ORDER TO COACH, ASSIST AND MENTOR ATHLETES.



PHOTO BY KEN ANDREYO



PHOTO BY KEN ANDREYO

Honoring Service

CAPT. THOMAS CALABRESE, COMMANDING OFFICER OF CARNEGIE MELLON NAVAL ROTC, GREETED VETERANS INCLUDING BILL RODGERS, HAROLD HUCKSTEIN AND MARK CONNOLLY, HOUSING OPERATIONS ASSISTANT AT CMU, AT A FLAG-RAISING CEREMONY IN HONOR OF VETERANS DAY. THE EVENT HONORED THE MORE THAN 200 CMU STUDENTS, FACULTY AND STAFF WHO ARE VETERANS AS WELL AS ALUMNI AND MEMBERS OF THE LOCAL COMMUNITY WHO SERVED IN THE U.S. ARMED FORCES. THE CEREMONY INCLUDED A MOMENT OF SILENCE FOR CMU ALUMNUS LT. COL. CHRISTOPHER "OTIS" RAIBLE, WHO DIED LEADING A COUNTERATTACK AGAINST ENEMY FORCES SEPT. 14 AT CAMP BASTION IN THE HELMAND PROVINCE, AFGHANISTAN, WHILE DEPLOYED IN SUPPORT OF OPERATION ENDURING FREEDOM. HE EARNED A DEGREE IN CIVIL AND ENVIRONMENTAL ENGINEERING FROM CMU IN 1995 BEFORE BEING COMMISSIONED A SECOND LIEUTENANT IN THE MARINE CORPS.

United Front

AS OF DEC. 3, THE CARNEGIE MELLON COMMUNITY HAS RAISED \$90,850 FOR THE 2012 UNITED WAY CAMPAIGN, WHICH WRAPS UP DEC. 21. THE UNITED WAY SUPPORTS THOSE IN NEED THROUGH THE MANY HEALTH AND HUMAN SERVICE ORGANIZATIONS IN THE REGION, AND A SPECIAL FUND HAS BEEN ESTABLISHED TO HELP THE VICTIMS OF HURRICANE SANDY. TO MAKE YOUR DONATION, GO TO WWW.CMU.EDU/HR/UNITEDWAY/



PHOTO BY KEN ANDREYO

Toys for Tots

JIM TEMPLE SPOKE ABOUT HIS GRANDMOTHER VIRGINIA O'HANLON, PICTURED WITH HIMSELF AS A CHILD IN THE PHOTO, AT THIS YEAR'S TOYS FOR TOTS KICKOFF. O'HANLON IS FAMOUS FOR WRITING TO THE NEW YORK SUN WHEN SHE WAS 8 YEARS OLD TO ASK IF THERE WAS NO SUCH THING AS SANTA. AT THE KICKOFF, TEMPLE READ FRANCIS P. CHURCH'S FAMOUS RESPONSE, "YES, VIRGINIA, THERE IS A SANTA CLAUS." IN ADDITION TO TEMPLE, THE EVENT FEATURED AN OLD-FASHIONED BARBERSHOP QUARTET, THE CMU NAVY ROTC UNIT AND BAGPIPERS. CMU STUDENTS ALSO LAUNCHED A "POSTCARDS FOR PATIENTS" DRIVE THAT WILL RECOGNIZE THE EFFORTS OF U.S. WAR VETERANS.



PHOTO COURTESY OF CAROLE PANNINO

Stocking the Shelves

THIS YEAR'S WINNING CANS ACROSS THE CUT TEAM FROM CIVIL & ENVIRONMENTAL ENGINEERING INCLUDED CORNELIA MOORE, ANDREA FRANCONI ROONEY, RON RIPPER, DWAYNE LEHMAN, DONNA MARANO AND NATHAN KOTECKI. FOR THE 19TH YEAR, STAFF COUNCIL SPONSORED ITS ANNUAL FOOD DRIVE, WHICH DONATED NEARLY 7,400 POUNDS OF FOOD AND \$5,000 DOLLARS TO THE GREATER PITTSBURGH COMMUNITY FOOD BANK. THE FOOD BANK STORES AND DISTRIBUTES FOOD AND HOUSEHOLD PRODUCTS TO NEARLY 350 CHARITABLE AGENCIES IN SOUTHWESTERN PENNSYLVANIA. THE DRIVE RAN FROM OCT. 29 THROUGH NOV. 9.

Knit & Purl

THE CARNEGIE MELLON WOMEN'S ASSOCIATION'S KNIT AND CROCHET CLUB DONATES HATS AND SCARVES EACH YEAR TO THE JEWISH FAMILY & CHILDREN'S SERVICE OF PITTSBURGH'S REFUGEE RESETTLEMENT SERVICES. FOR THE PAST TWO YEARS, THE CLUB HAS ANNUALLY DONATED MORE THAN 40 ITEMS. THE GROUP MEETS ONCE A MONTH.



PHOTO BY TIM KAULEN



PHOTO BY KEN ANDREYO

Kibble for Kitties

ANN YEAGER, MARKETING DIRECTOR OF THE ANIMAL RESCUE LEAGUE SHELTER AND WILDLIFE CENTER, WAS ON HAND FOR THE SOCIETY OF AUTOMOTIVE ENGINEERING RACE TEAM'S EVENT TO RAISE AWARENESS FOR THE PLIGHT OF ABANDONED CATS AND KITTENS. THE STUDENTS COLLECTED \$200 WORTH OF CAT FOOD FOR THEIR MAKE A DIFFERENCE DAY DRIVE DUBBED "KIBBLE FOR KITTIES." THE EVENT FEATURED KING'S RESTAURANT'S FROWNIE BROWNIE HELPING STUDENTS PACK FOOD BOXES FOR THE ANIMAL SHELTER, AND WAS SUPPORTED BY THE POINT BREEZE VETERINARY CLINIC, FRICK PARK MARKET AND SMILEY'S PET PAD.

Qatar Biology Outreach Program Excites High Schoolers

■ Sarah Nightingale

More than 60 students from 14 high schools got a taste of a crime scene investigation during an interactive outreach program offered by Carnegie Mellon Qatar's biological sciences and computational biology programs.

The Biotechnology Explorer Program, similar to outreach efforts at the Pittsburgh campus, engages secondary school students through hands-on laboratory experiences while teaching them the science behind the techniques they learn.

When students entered the classroom, they saw a "crime scene," complete with an outline of the victim's body on the floor. They then became forensic experts, collecting DNA samples from both the crime scene and the five suspects. They broke the DNA into specific fragments using restriction enzymes and used a technique called DNA gel electrophoresis to determine the size of their fragments.

After staining their gels to see the DNA and taking a picture of their gels, they were able to compare the pattern of DNA fragments from the crime scene to see if it matched any of the suspects. A match would indicate they had found the murderer.

Kenneth Hovis, assistant teaching professor of biology at Carnegie Mellon University in Qatar, used to assist Carrie Doonan with outreach efforts at the Pittsburgh campus.

"One of my primary goals with this program is to get high school students in this region excited about biology. This activity gets them interested in the problem they are



HIGH SCHOOL STUDENTS EXAMINE GEL TO IDENTIFY THE DNA BAND PATTERNS. RAYAN MAHMOUD (CENTER), GRADUATE OF THE BIOTECHNOLOGY EXPLORER PROGRAM, IS NOW A CMU FIRST-YEAR STUDENT IN BIOLOGY.

trying to solve, and they forgot that they are learning a lot," Hovis said.

"My second goal is to help teach and prepare students to be successful as they enter the university setting to study sciences. The techniques they learn during the course of this program are basic techniques they will use in nearly any biology or pre-med program they might enter," Hovis added.

During last year's program, Carnegie Mellon taught students about their immune system and simulated a disease outbreak among the participants. Students had to determine if they were affected, by following the data trail backward to pinpoint the source of the infection.



KEN HOVIS, AT LEFT, SHOWS TWO HIGH SCHOOL STUDENTS DNA PATTERNS ON A GEL. IN THE BACKGROUND IS MEI ELGINDI (S'13), WHO CONDUCTED RESEARCH IN PITTSBURGH THIS SUMMER.

Solving BioSAC Mystery Provides Novel Interactions CONTINUED FROM PAGE ONE

on Monday, Feb. 18, and a private Biology Department dinner performance will be on Wednesday, Feb. 20.

The evening has become an annual tradition with students and faculty members in the cast.

"It's a creative outlet for our students who enjoy theater performance or theatrical arts," said Maggie Braun, assistant department head for undergraduate affairs in Biology.

Often students volunteer to write the scripts themselves, and Braun said they draw on their experiences from biology.

"There will be a lot of inside jokes about classes and things like that," she said.

The two-act plays generally have spoofed everything from students competing for a prestigious medical school scholarship to last year's poster session with a Batman appearance.

This year, the murder will take place at the MCS Ball, an annual spring dance.

Carrie Doonan, director of undergraduate laboratories, has been asked by the students to be a zany character every year except for the first one.

"Teaching is a lot like acting, it really helps build your teaching skills," she said. "I think it's very natural to go from teaching to acting. And it's fun. I love it."

The opportunity lets her see students in a new light.

"I see another side of their personality out of the classroom, and I love to see their creative side. I am impressed with their dedication to doing this and their commitment," she said.

Andrew McCoy, who has been involved with the show since his freshman year, said the same was true for students regarding faculty.

"It's always a lot of fun to cast faculty into roles that they would otherwise not

play in everyday life," he said. Last year Justin Crowley, director of the Health Professions Program, played Batman, Doonan was a football jock and Braun played a social media maven who spoke in text lingo. "Faculty always have fun participating and it's a great way to get to know your faculty outside of the classroom."

Audience members benefit from the experience as well. At the Biology Department's performance, faculty and students work together to try and solve the murder.

"When you give a set of people a task to do, like pay attention, solve the clues, that really breaks down barriers," Doonan said. "It facilitates the conversation, you really get to know other people, and it builds this camaraderie."

The result ends up having students more at ease with contacting faculty about discussing research or other ways to become more involved.

This is just one of the outreach projects that BioSAC sponsors to promote biology on campus and in the greater Pittsburgh region. Braun said students build a booth at Spring Carnival, have raised more than \$46,000 for Relay for Life and carry out science outreach with high school students through the Biological Sciences Outreach Program. Learn more at www.cmu.edu/bio/outreach/index.html.

WHAT: ANNUAL BIOSAC MURDER MYSTERY

WHEN: 6 P.M., MONDAY, FEB. 18

WHERE: RANGOS BALLROOM, UNIVERSITY CENTER

COST: \$2 AT THE DOOR

Online and In Person

Tepper School Introduces New Model for MBA

■ Mark Burd

The Tepper School of Business will offer its world-class MBA in a new blend of online and onsite formats beginning in the fall of 2013. The FlexMBA program creates a new model for online business education, combining in-person sessions, online classes and self-paced learning to deliver the same coursework, faculty, team interaction, personal leadership coaching and career services found in the school's highly-acclaimed full- and part-time MBA programs.

In contrast to current trends that are building increasingly larger online classes, the FlexMBA approach delivers the MBA program to focused sections of 20-30 students, who will interact frequently with faculty, alumni, school resources, and each other online and in person.

"The new FlexMBA model draws on our school's experience earned

over nearly two decades of successful graduate-level distance-learning programs and combines that knowledge with our expertise in traditional full- and part-time MBA education," said Michael Trick, senior associate dean for education at the Tepper School. "Maintaining quality and consistency across all our MBA delivery platforms is paramount. The flexibility of the FlexMBA format makes it convenient for students anywhere in North America to access our curriculum and faculty."

The 32-month FlexMBA curriculum will be delivered via an innovative combination of onsite and online channels. Students will complete two courses each seven-week mini semester, which will begin and end during "Access Weekends," repeating three-day events that bring the students and faculty in a course together in a single location roughly every seven weeks. The rest of the course will be delivered via weekly interactive live-video classes, supported

by a variety of online self-paced learning activities during the week.

"By utilizing diversified channels, we will offer the flexibility of online education while maintaining the high-quality interaction of the MBA student experience found in our traditional programs," Trick said. "Access Weekends' will be an important channel to provide students with direct interaction with faculty, alumni, personal leadership coaches, career services and each other. Rotating the location of these weekends to different geographic areas also allows us to involve different alumni and industries and to further create a unique and valuable student experience."

Access weekends will offer an action-packed three full days of lectures, testing, group development and presentations, career services, and access to alumni and corporate programs from within the region. The weekly online class for each course will provide the opportunity for students to interact with

the faculty to clarify and strengthen their command of the weekly material and apply it to relevant business situations through case discussions.

"Going forward, we plan to maintain an adaptive open architecture for the delivery technologies that the program uses, so that we can take advantage of new online technologies as they are developed," Trick said. "The integration of new technologies and channels to offer this flexibility in delivering our MBA, while maintaining a high level of interactivity is a credit to a committee of thoughtful faculty members with input from all facets of our school community."

Admission requirements for the FlexMBA program remain the same as for the Tepper School's full- and part-time MBA programs. The Tepper School is now accepting applications for the new Flex MBA program.

Additive Manufacturing To Seek CMU Students

■ Chriss Swaney

Carnegie Mellon graduate students in engineering will soon be entertaining offers from three companies involved in additive manufacturing, a revolutionary technology also known as 3-D printing, that increases production efficiency while reducing costs.

Earlier this month, Carnegie Mellon engineering professors Gary Fedder, O. Burak Ozdoganlar and C. Fred Higgs III joined Pennsylvania Governor Tom Corbett at Acutronic, a Pittsburgh aerospace industry supplier, where he announced state funding to three Pennsylvania companies to hire graduate students from Carnegie Mellon and Lehigh University to support additive manufacturing projects. Additive manufacturing technology binds metals and other materials with a proprietary liquid and the finished product is hardened in a furnace. It eliminates the need for bending, molding and welding parts together.

In August, Carnegie Mellon partnered with Lehigh and several other universities, private industries and economic development organizations to win a \$30 million grant from the U.S. Department of Defense for a new National Additive Manufacturing Innovation Institute. The project is an offshoot of the Advanced Manufacturing Partnership that President Obama announced at CMU in 2011.

Fedder, CMU professor of electrical and computer engineering and director of the Institute for Complex Engineered Systems, is leading CMU's additive manufacturing efforts.



PROFESSOR GARY FEDDER, PICTURED ABOVE AT GOVERNOR CORBETT'S ANNOUNCEMENT AT ACUTRONIC, IS LEADING CARNEGIE MELLON'S EFFORTS IN ADDITIVE MANUFACTURING. CORBETT IS SEATED AT LEFT.

PHOTO BY LARRY RIPPEL

English Students Serve Up New Blog at the PG

■ Shilo Rea

Six students in the Master of Arts in Professional Writing program have spent the semester cooking up a way for the Pittsburgh Post-Gazette to increase readership through social media.

Their recipe for change was a new blog with a focus on food, titled PGPlate.com.

"Food seemed smaller and more manageable than something having to do with sports or the Steelers but still has a very wide appeal," said James Berndt, who is expected to complete his degree this semester.

"I would joke in class that the number of people who eat in Pittsburgh is greater even than the number of Steelers' fans, though perhaps by a narrow margin, so the choice of food as a blogger category made sense," said Tom O'Boyle, an adjunct English professor who structured his professional writing project course to encourage students to pay attention to the changes in journalism. O'Boyle's full-time job is senior manager of audience and associated strategies at the Pittsburgh Post-Gazette.

Self-proclaimed foodie Veronica Kawka believed there was a strong food community in Pittsburgh that they could take advantage of. "We started researching food bloggers in the area and found 50," she said. "That only escalated our idea."

The team thought that if they could convince existing Pittsburgh food bloggers to partner with the Post-Gazette for the new site, it would be a win-win.

In addition to identifying and reaching out to prospective bloggers, the team also laid out detailed plans for the website, including the site's functionality, features and look and feel.

"We gave the Post-Gazette a plan to slowly implement more technically advanced features," Berndt said. "The version of PGPlate.com that launched was phase one. Future phases will have more gaming elements to help readers determine the credibility of the bloggers. Bloggers will get points for things like testing recipes, uploading pictures and submitting restaurant reviews."

One of the most challenging aspects of the project was the team's immersion into the business of new media — something entirely new for the students.

"As writers, we had to expand our repertoire to do business and marketing," Kawka said. "We had to present the big picture to the Post-Gazette — the feasibility of the project, the marketing plan, where the financial resources would come from and the design and functionality of the product."

"It was great to learn it all by doing a real project," she said.

LECTURE SPOTLIGHT: MARTIN LUTHER KING JR. DAY SPEAKER WANTS TO SEE ATTORNEYS VOLUNTEER MORE

■ Heidi Opdyke

Binta Niambi Brown didn't get to run her first New York City marathon this year, thanks to Hurricane Sandy.

Instead she wore her race shirt while she volunteered to help victims of the massive storm that swept through her adopted city.

"For me personally, the fact of survival means certain responsibilities," she wrote in a Huffington Post blog about her experience.

Brown will deliver the keynote speech, "Remember Your Name," for CMU's 2013 MLK Day celebration on Jan. 21.

A partner in the Corporate Practice Group of the New York office of Kirkland & Ellis LLP, she has represented corporate clients in connection with merger and acquisition transactions, public and private debt and equity offerings, and secured debt financings.

She advocates that pro bono work should be made a requirement for attorneys rather than a recommendation. Some of her own volunteer work has included advocating on behalf of women



BINTA NIAMBI BROWN

and girls, assisting with democratic institution building and rule-of-law reforms, and engaging in other human rights matters throughout the world.

Fortune Magazine named the self-described "problem solver" to its list of business's 40 under 40 "hottest rising stars," and the World Economic Forum honored her as a Young Global Leader in early 2012.

She also was named one of the 2011 "40 Under 40" professionals in

WHO: MARTIN LUTHER KING JR. DAY KEYNOTE ADDRESS

WHAT: BINTA BROWN

WHEN: 5 P.M., MONDAY, JAN. 21

WHERE: RANGOS HALL, UNIVERSITY CENTER

Crain's New York Business, and the National Organization for Women recognized her as a "Woman of Power and Influence" in June 2011. Super Lawyers Magazine listed her as a New York "Rising Star" in September 2011.

In 2005, the U.S. Army and the Fifth Division of the Iraqi Army honored Brown for her pro bono support of a military operation that resulted in securing emergency medical care in the U.S. for a young Iraqi civilian.

A graduate of Barnard College and Columbia Law School, Brown is a member of the Council on Foreign Relations and a Truman National Security Fellow. She also is a member of the Board of Trustees of Barnard College, Columbia University, the New York

City Parks Foundation and the American Theatre Wing. She is a member of the Board of Directors of Human Rights First.

Arrangements for the appearance of Brown were made through The Guild Agency Speakers Bureau.

Carnegie Mellon celebrates MLK Day with "A Day On, not a Day Off" though community and civic engagement to honor Dr. King's legacy of tolerance, peace and equality. Students, faculty, and staff enjoy projects and events relating to social change, community building, diversity and multicultural understanding. Past projects have highlighted social issues such as hunger, homelessness, racism and poverty.

NEWS BRIEFS

ORIC and OSP Move to WQED Building

The Office of Research Integrity and Compliance (ORIC) and the Office of Sponsored Programs (OSP) have moved from Warner Hall to the nearby WQED building at 4802 Fifth Ave. The move provides much needed space and will accommodate anticipated future growth. The ORIC is on the first floor and the OSP is on the second floor of the building.

While the walkway from the rear of the Morewood parking lot to WQED is being renovated, visitors to the ORIC and/or OSP should take the short walk through the Morewood parking lot to Devonshire Street. Take Devonshire to Fifth Avenue. Turn left on Fifth and left again into the WQED visitors' parking lot. Walk to the rear of the lot and use the speakerphone at the back entrance to contact administrative assistant Darlene Kapcin. Please note that onsite visitor parking for the ORIC and OSP is not available.

Disabled visitors should enter through the front door of the building and proceed to the WQED receptionist for directions. There is a disabled parking spot in the WQED visitors' lot, which is available on a first-come, first-served basis.

All phone numbers for ORIC and OSP staff remain the same. All documents and paperwork for the offices should be dropped off with Kapcin in the reception area adjacent to our entrance at the rear of the WQED building. Send mail to the offices at: WQED Building, 5000 Forbes Ave.

Questions should be directed to Kapcin at 412-268-8746.

Wagner Hosts Broadway Performances for Alumni



Alumna and Life Trustee Paula Wagner, a Hollywood producer and owner of Chestnut Ridge Productions, will host a performance of one of her most recent Broadway productions for Carnegie Mellon

alumni in New York City.

On Thursday, Jan. 17, alumni will enjoy "The Heiress," starring Oscar nominee Jessica Chastain ("The Help") and Dan Stevens ("Downton Abbey") at the Walter Kerr Theatre at 219 West 48th St.

Wagner is excited about her new venture and said she has been well prepared for her career as a result of her Carnegie Mellon training.

"Through my extensive conservatory training at CMU, I was well prepared for the entertainment industry," she said. "The rigors and discipline of this education also allowed me to segue into film, where I spent most of my career. Finally, it has been the foundation that has allowed me to once again embrace the theater with this production of 'The Heiress.' It was at CMU that I first studied and analyzed 'The Heiress.'"

Earlier this month, she invited alumni to see one of her other recent productions, "Grace," starring Paul Rudd, Michael Shannon, Ed Asner, and Kate Arrington, at the Cort Theater at 138 West 48th Street. Following the performance, Wagner hosted the alumni audience for a talkback about the performance.

General show tickets are available for both productions by going to the Cort Theater at www.newyorkcitytheatre.com/theaters/corttheater/grace.php and Walter Kerr Theatre at http://broadwayworld.com/shows/theatre.php?theatre_id=7457.

Wagner has been involved in some of the world's most successful and critically acclaimed films, including "The Others," "Mission: Impossible," "The Last Samurai" and "Vanilla Sky." A summa cum laude graduate, Wagner now serves as an adjunct faculty member in the Heinz College's Master of Entertainment Industry Management program.

Startup Adds Footprint in Silicon Valley

Neon, the Carnegie Mellon startup that uses cognitive neuroscience to improve online video clicks, has added a footprint at the Silicon Valley campus to take advantage of business opportunities and to work with students in Carnegie Mellon's Master of Entertainment Industry Management program in Los Angeles. While Neon moves to the West Coast, Michael J. Tarr, Neon co-founder and senior technical adviser, remains in Pittsburgh.

"We are excited to be the first startup from CMU's Pittsburgh campus to take the opportunity to move to Silicon Valley," said Sophie Lebrecht, Neon CEO and co-founder. "This move puts us where we can work face-to-face to build partnerships, collaborations and a strong customer base with video publishers and platforms. And, by having Michael in Pittsburgh, we will benefit from remaining strongly connected to its rich scientific community."

Grossmann Honored by Argentina's Government



Chemical Engineering Professor Ignacio Grossmann received the Luis Federico Leloir Award from Argentina's Ministry of Science,

Technology and Innovation on Nov. 23 in the Palacio de San Martin in Buenos Aires. Grossmann was given the award for his collaborations with Argentinean researchers in process systems engineering, and for strengthening their scientific and technological capabilities. Other recipients of this award included researchers in the areas of physics, nanotechnology, medicine, biology, oceanography and geology.

Physicist Wins Condensed Matter Prize



Emeritus Professor of Physics Luc Berger has been named a winner of the 2013 Oliver E. Buckley Condensed Matter Prize by the

American Physical Society (APS). The prestigious prize recognizes and encourages outstanding theoretical or experimental contributions to condensed-matter physics and is awarded for a highly important contribution to the

Fitness Challenge Aims at Getting People To Exercise Regularly

■ Heidi Opdyke

An effort to get the Carnegie Mellon community moving at the gym could take you places. At least on paper.

“CM-YOU” is the theme for this year’s Department of Athletics’ Fitness Challenge, an annual effort that aims to get people to exercise 20 minutes a day for four times a week. This year’s challenge runs Monday, Jan. 28 through Friday, March 8.

Patty Stragar, operations manager for Fitness & Aquatics, said she hopes to get participation from other CMU locations around the world.

In Pittsburgh, the Healthy Campus Kickoff will take place at noon on Wednesday, Jan. 16, in the University Center (UC), and an open house will be held at noon on Friday, Jan. 18 at athletic recreation facilities in the UC and Skibo Gymnasium.

“It takes six weeks to create a habit,” said Donna Morosky, coordinator of Fitness. “We often talk about making new habits for the New Year, and what better way to make a good habit than to start something that is good for you, can only improve with age and where others are participating?”

To visualize progress, a large world map will be hung near the University Center Equipment Desk marked with CMU locations. Participants will choose a destination, and as they complete their exercise each day, they’ll earn blocks that will get them and others with the same destination a little closer to their goal.

Additional partners include Human Resources, Health Services, Student Life and Enactus, formerly known as the Students In Free Enterprise or SIFE.

Enactus members Kristina Jang (E’15) and Alice Ye (TPR’15) said their goal is to help people know that it’s OK to take a break.

“We need something like this to promote healthy habits. People come to college and develop bad habits. Sleeping is hard,” Ye said.

More and more research studies indicate that taking breaks from mental tasks improves productivity and creativity.

“I like to keep exercise in my weekly routine because it helps me clear my mind,” Jang said.

As part of the event, there will be a series of healthy lifestyle sessions and a 5K run/walk on Sunday, March 3. More

details will be available next semester.

This is the second year that Enactus has worked with the Healthy Campus initiative to start the New Year off with fitness. The students will showcase their outreach efforts at an intercollegiate competition later in the spring.

Stragar said that last year about 200 people participated in tracking their progress. But between 800 to 1,000 people use the recreation and athletics facilities any given day. The hope is to increase those numbers through efforts such as this.

CMU employees have full use of university athletic facilities when they present their university ID. Some of the options include:

- Walking Wednesdays @ Noon at the track or in the gym;
- Group X-ercise classes (for a small fee);
- Recreational activities;
- Free classes for staff and faculty at Whitfield Hall Monday through Thursday.

Learn more about the Staff Faculty Fitness program at www.andrew.cmu.edu/org/StaffFacultyFitness/. To sign up for the Fitness d-list, contact Stragar at pls@andrew.cmu.edu.

CONTINUED FROM PAGE FOUR

“Chris Menand and I encourage students to explore as many funding sources as possible,” said Jaycie King, coordinator of study abroad and international programs. “We provide numerous resources on OIE’s website and talk with students about opportunities that may work well for them.”

In addition to the Brave Family Companions Fund, the URO coordinates the International Small Undergraduate Research Grant program. Students may apply for up to \$500 in materials and supplies for conducting research abroad.

Numerous alumni have endowed college- or major-specific study abroad scholarships, while some colleges and schools sponsor students’ international travel. Last summer, 52 students received \$250 to \$900 each through the Tartans Abroad Fund, to which any undergraduate student can apply for study, work, volunteer, research or special projects. Tartans Abroad also supports student groups completing short-term international travel.

“The number of applications to Tartans Abroad has increased over the past several years,” King said. “That makes financial support from OIE, the dean of Student Affairs, vice provost for education, colleges and academic departments more important each year to sustain this opportunity.”

advancement of knowledge in the field.

For Berger and co-winner John Slonczewski, IBM research staff emeritus, that advancement was independently “predicting spin-transfer torque and opening the field of current-induced control over magnetic nanostructures.”

Fred Gilman, dean of the Mellon College of Science, said Berger is “richly deserving” of the honor.

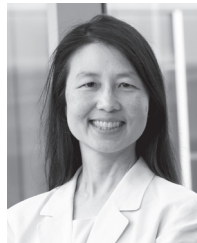
“Luc has made groundbreaking contributions to our understanding of the behavior of magnetic materials,” Gilman said.

Graduate Student Service and Teaching Award Nominations Open

The Graduate Student Service and Teaching Award nominations are due on Friday, Feb. 8. The committees greatly appreciate support in soliciting and submitting nominations of graduate students who have excelled in teaching or service so that their efforts can be recognized by the university community.

Nomination information can be found at www.cmu.edu/celebration-of-education/graduate-student/index.html. Awards will be presented on Thursday, April 4, at the “Innovation with Impact: Graduate Student Celebration of Research, Teaching and Service” during Graduate Student Appreciation Week. Recipients also will be recognized at the Celebration of Education on Tuesday, April 30.

Wing To Join Microsoft Research



Jeannette Wing has announced she will step down as head of the Computer Science Department (CSD) to join Microsoft Research in January.

She will

be vice president and head of Microsoft Research International, with responsibilities for research laboratories in Bangalore, India; Cambridge, UK; and Beijing, China.

A leading figure in computer science research, particularly in formal methods, security and privacy, Wing joined the CMU faculty in 1985 and served in several academic leadership positions before becoming head of CSD in 2004.

“Jeannette has been an important contributor to computer science at CMU,” said Randy Bryant, dean of the School of Computer Science. “Needless to say, we will miss Jeannette’s energy and thoughtful leadership, but all of us wish her the best at Microsoft. I thank her for her many contributions to Carnegie Mellon.”

Friedman Summer Internships Available

Milton and Cynthia Friedman Summer Internships are available to all Carnegie Mellon undergraduate and graduate students from any course of study who would value first-hand policy experience in Washington, D.C. Placement assistance is available as are grants of up to \$2,500.

The application deadline is Feb. 22.

An information sessions will be held at 5 p.m., Jan. 17, in the Dowd Room, University Center.

For more information about the internships, see www.cmu.edu/govrel or contact Internship Coordinator Jen Layman at jlayman@cmu.edu or 412-268-1605.

Tepper Professor Named To New Faculty Chair



Burton Hollifield (T’89, ’92), a professor of financial economics at the Tepper School of Business, has been chosen as the first recipient of the PNC Professorship

in Finance.

The newly created faculty chair has been made possible through an endowment by the PNC Foundation to recognize excellence in teaching and sustained achievements in developing impactful research for the financial community.

Hollifield joined the faculty at Carnegie Mellon in 1998 and has become highly regarded as a teacher in finance and investments, and as a researcher on a wide range of topics impacting world markets and financial institutions. His recent research has examined the term-structure of interest rates, the mortgage market and trading in over-the-counter financial markets.

Hollifield received the 2009 George Leland Bach Teaching Award by the Tepper School’s graduating MBA class, and the Tepper School’s 2007 Business Teaching Award, bestowed by the school’s undergraduate teaching program.

Dietrich College Debuts Humanities Video

Over the past decade, the Dietrich College of Humanities and Social Sciences has strengthened its standing in the humanities. Faculty and students within the departments of English, History, Modern Languages and Philosophy focus on teaching and learning as well as developing useful, practical skills. Often, they cross disciplines to solve real-world problems.

A new video aims to capture the excellence of Dietrich College’s humanities. Starring in the film are professors Caroline Acker, Kenya C. Dworkin, Timothy J. Haggerty, David Kaufer, Kathy M. Newman, Richard Scheines, and Joe W. Trotter; current Global Studies senior Ema Woodward; and alumnus Zach Harris (DC’07). Check out the video at <http://youtu.be/DFdHcQN-Chs>.

Estate Art Tarentum Family Items on Display in Shanghai



PHOTOS COURTESY OF JON RUBIN

BEFORE: THE LOVASIK FAMILY HOME IN TARENTUM PRIOR TO THE ITEMS BEING SHIPPED TO SHANGHAI.



AFTER: MORE THAN 3,000 ITEMS WERE SHIPPED TO THE 9TH SHANGHAI BIENNIAL AND WILL BE SOLD THROUGH MARCH 31.

■ Pam Wigley

Jon Rubin met the Lovasik family in their Tarentum neighborhood just outside of Pittsburgh, and now he is sharing parts of their lives with strangers from Shanghai.

The Lovasiks aren't particularly famous, and they don't have an extraordinary story to tell. But they became part of the associate professor of art's world when he bought their entire home of possessions at an estate sale earlier this year and transported the 3,000 items to China for the 9th Shanghai Biennial, which began Oct. 2 and runs through Dec. 31.

Organized by independent curator Chelsea Haines and sponsored by The Andy Warhol Museum, the Pittsburgh Pavilion at the 9th Shanghai Biennial explores the life and legacy of one ordinary family in Pittsburgh.

By the end of the biennial, Rubin will have nothing of the Lovasiks left to ship back to the States. Every item, from a mailbox to a recipe holder and family photos to furniture, is for sale. By the end of the exhibition, Rubin will have sold every last piece. He then will purchase the estate of a typical Shanghai family and ship it to Pittsburgh for display at the Warhol Museum next fall. The cultural exchange, Rubin said, will be of interest to people on both sides of the world.

"I think the people of Shanghai are fascinated with what they see as a classic American family's home, which just happens to be from Pittsburgh," he said. "And, likewise, I expect that Pittsburghers will be interested in seeing what the Warhol exhibit of a classic Shanghai home entails."

The biennial is considered to be the highest profile contemporary art event in Shanghai, featuring the primary art show as well as lectures and installations throughout the city.

Rubin was chosen to be part of the biennial by curator Haines, who was familiar with his Conflict Kitchen project. Thirty cities are represented, and Pittsburgh is one of only five in the U.S. The others are Detroit, Los Angeles,



A WOMAN PAGES THROUGH A PITTSBURGH FAMILY ALBUM ON DISPLAY.



ONLINE: [HTTP://LOVASIKESTATESALE.TUMBLR.COM/](http://LOVASIKESTATESALE.TUMBLR.COM/)

San Francisco and Brooklyn. Approximately 600,000-800,000 people are expected to tour the biennial exhibits.

That certainly will provide a nice flow of foot traffic for Rubin's Pittsburgh estate sale, helping to guarantee his purchase of a Shanghai family home to share with all who visit the Warhol exhibit in 2013. The specific exhibition dates will be announced shortly.

Competition & Learning CONTINUED FROM PAGE TWO

— was the top finisher. PPP2 placed second and includes George Hotz (CS' 15), Robbie Harwood (CS' 15), Ryan Goulden (CS' 15) and Garrett Barboza (E' 13).

It was the fourth consecutive CSAW win for CMU teams from the PPP security research group. PPP is ranked No. 1 in the world among Capture the Flag teams for the second year in a row, Brumley noted.

Best Biosensor

A fluorescent biosensor that measures cellular activity, created by an undergraduate team, earned the Best Foundational Advance prize at the International Genetically Engineered Machine (iGEM) Competition's World Championship Jamboree in Cambridge, Mass.

In early November, more than 190 teams from 34 countries used a toolkit of standard, interchangeable biological parts to design and build biological systems that do not exist in nature.

The winning CMU team of Yang Choo (E' 14), Eric Pederson (S' 15), Jesse Salazar (E' 13) and Peter Wei (E' 15) used a fluorogen-activating RNA sequence and a fluorogen-activating protein to create a biosensor that glows brighter in response to cellular activities. The CMU invention can be used to measure the output of other systems created using synthetic biology. Instructors Cheemeng Tan, a Lane Post-doctoral Fellow in the Ray and Stephanie Lane Center for Computational Biology, and Natasa Miskov-Zivanov, an adjunct faculty

member in the Department of Electrical and Computer Engineering, led the effort to create CMU's iGEM team.

Success With Sustainable Systems

A trio of architecture students — Dan Addis, a master's student, and fifth-year seniors Eui Song "John" Kim (A' 15) and Jensen Ying (A' 15) — won the International Sustainable Laboratory Student Design Competition for their design proposal for a Salt River Bay Marine Research and Education Center on the island of St. Croix in the U.S. Virgin Islands.

Of the 120 submitted projects, the team's work, titled "Modular Sustainability," stood out as one of the two winning designs because the judges said it "shows a well-documented and thorough sustainable systems analysis and demonstrates a thoughtful, integrated approach to the design process."

The team agreed that their guiding principle in developing the project was to combine system integration with architectural design and a focus on sustainability.

"The competition provided a good opportunity to explore a complex building type on a demanding site and in a challenging climate, all while striving to reduce the impact on the environment and resources," said Gary P. Moshier, a CMU adjunct associate professor and the team's faculty sponsor.