Hats Off!

Members of the Carnegie Mellon in Qatar Class of 2012 received their diplomas at a May 7 graduation ceremony at the Qatar National Convention Centre. With 61 members, this year’s class was the largest to graduate from the Doha campus. Read about Carnegie Mellon’s 115th Commencement activities in Pittsburgh in a special pullout section on pages 5-8.

CMU in NYC
University Joins NYU Partnership

Teresa Thomas
Carnegie Mellon, with New York University (NYU), the Polytechnic Institute of New York (NYU-Poly), the University of Toronto, City University of New York, the University of Warwick, the Indian Institute of Technology Bombay, IBM and CISCO, among many others, will be part of the Center for Urban Science and Progress (CUSP), a second step in New York Mayor Michael R. Bloomberg’s plans to build strong ties with leading research universities around the nation and the world.

Mayor Bloomberg, with leaders
Continued on page twelve

Meeting of the Minds
Adviser Helps Undergraduates Research Their Passions

Abby Simmons
From an artist’s lens, Elaine A. King sees the most important lesson undergraduate students can learn from conducting research is how to focus and integrate.

“At the university, we often think of conducting research in fields such as computer science, history or medicine; however, artists, too, must delve deeper into subjects or processes,” she said.

King, a professor of art history and theory encourages her students to select topics of personal importance and challenges them to develop tight proposals outlining their scope of work.

She is just one of the many professors who mentor students and advise them on their undergraduate research projects. More than 450 of those projects from Carnegie Mellon’s six undergraduate colleges were on display at the May 9 Meeting of the Minds in the University Center.
Q&A: Griss Shares Decade of Success at Silicon Valley Campus

In your opinion, in what area has the campus made the greatest impact? We’ve had several areas of impact due to our leading edge research and education.

I’d say the greatest impact has been with the graduates we produce as a direct result of our innovative teaching. We have pioneered a style of education here that is being recognized by other institutions as one of the most effective ways to learn. We avoided the traditional lecture style, favoring instead a team and project-oriented learn-by-doing methodology. Students work on authentic projects leading to skills that are immediately transferrable to the workplace.

We combine strong technical academics with business and organizational skills so the students graduate as software leaders, making an impact in the Valley.

With so many graduates from our program, we can easily see our fingerprints all over the Silicon Valley.

What types of students attend? What companies or fields do the students come from?

We have full-time and part-time programs here at the Silicon Valley campus. Our full-time programs attract students worldwide, who come to our campus for graduate degrees in software engineering, software management and entrepreneurship; electrical and computer engineering; and information technology.

Our part-time program primarily attracts local software professionals, but due to our remote learning capability, we also have students who participate from other locations. Many of our students come from software-intensive companies or backgrounds and from local, national and international locations.

We love seeing how our students are a true reflection of the industry that surrounds them — diverse, smart, coming from start-ups, mid-size companies and large enterprises.

What are some of the current research projects at Carnegie Mellon Silicon Valley? Most of our research projects are related to the emerging mobile digital lifestyle and the web of things. Just recently, it was reported that more than 50 percent of the mobile phones in the U.S. are smartphones — this demonstrates a radical shift in how people communicate and collaborate with social media, and access the Internet, services and data. Leveraging our strengths in mobile applications, wireless sensors, machine learning, big data, cloud computing, natural language, networking and security, we are able to address a wide range of important problems that have arisen in this new age. The synergy between these areas allows us to innovate in societal areas such as disaster management, mobile education, smart buildings, emergency management and health.

Where do you see the Silicon Valley campus going in the future? As the West Coast outpost for Carnegie Mellon, we see ourselves as critical to the university’s long-term goals. We have started entrepreneurship programs that are connected back to the main campus, in direct response to student feedback. We have created collaborative research and educational programs that are now thriving. I can only anticipate that this will continue to grow, especially as we engage more with Silicon Valley.

In fact, we have expanded into a new building on campus, with plans to build even more classrooms, faculty offices, labs and student spaces. Because we are so connected in Silicon Valley and have our fingers on the pulse of what the new technology trends are, we are able to quickly adapt and grow new programs and projects that connect us to the newly emerging needs. Are some of the founding industry partners still involved, and if so in what way? Some of our earliest partners include Ericsson, Nokia and Panasonic. With each of these companies the relationships have grown. Some of our students have been hired by these companies, and the companies continue to sponsor practicums and research projects. Interestingly enough, they came to the Silicon Valley shortly after we did, to establish their mobile and networking research centers here — the home of mobile innovation. Because of our focus on mobility research, they quickly recognized us as a key partner in their research endeavors and we have been able to grow with them. Now we have dozens of corporate partnerships, not only in mobility but in a whole variety of technology.

Inquiries concerning the application of and compliance with this statement should be directed to the vice president or local laws or executive orders.

The Piper 5/12 issue

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S70 million-plus building will be nestled on the hillside between Hamerschlag, Wean and Roberts Engineering halls. A four-story north wing with a glass exterior will overlook the hollow, extending toward Craig Street above exterior support columns.

The lower two floors of the north wing will consolidate Biomedical Engineering offices and laboratory spaces from multiple locations, including from the PTC Building by the Monongahela River. Energy institute offices and labs will be on the third level and the top floor, which is approximately 10,000 square feet, will be a sheltered space for a future academic or research unit from the university.

To the southeast of the north wing will be a 12,000-square-foot nanofabrication facility, upgrading and nearly tripling the size of the current lab on the D-Level of Hamerschlag. The new lab will be located in what is now a parking lot between Hamerschlag and Wean halls.

As is the case in the Gates and Hillman centers, the new structure will promote openness and collaboration and provide connections to neighboring buildings and parts of campus. The north wing will have a four-story atrium space, known as “the collaboratory,” which will join all four levels of the building and include spaces furnished with comfortable furniture and white boards.

The north wing floors will connect directly to Wean Hall on multiple levels and the cleanroom on the ground floor will connect to Hamerschlag and Wean.

Exterior connections also will be part of the new developments.

The Hornbostel Mall will extend above the cleanroom between Hamerschlag and Wean halls and connect to the energy institute in the north wing. A glass pavilion will lead pedestrians down one level from the Hornbostel Mall to a small café, training area and the nanofabrication lab. The Porter Hall side of Hamerschlag will be fitted with a new stairway leading to the Scalle Hall parking area.

“Fitting all of this program into a challenging site has been difficult,” said Ralph Horgan, associate vice provost for Campus Design and Facility Development. “But with the guidance of College of Engineering Dean Pradeep Khosla and Institute for Complex Engineering Systems Director Gary Fedder we have worked very hard to pull it all together for the users, for the college and for the university.”

Through a design competition last year, CMU selected a design team led by Office 52, an architectural firm based in Portland, Ore. The team includes the Pittsburgh firm of Stantec/Burt Hill. Providing lab and engineering expertise on the design team are Jacobs Consultancy and ARUP Engineers. Office 52’s higher education clients have included Stanford, Virginia Tech and the University of Texas at Austin. Burt Hill’s credits include projects at CMU, Cornell, Princeton, Penn State, Georgia, Iowa and Maryland. The firm led renovation projects to CMU’s Baker and Doherty halls.

Horgan said, as with all new construction, CMU will strive to make this a sustainable building, achieving Silver LEED status at a minimum.
Qatar Announces Campus Service Awards

Sarah Nightingale

Ilker Baybars, dean of Carnegie Mellon University in Qatar, recently announced that the Doha campus’s distinguished service awards have been named after Charles E. Thorpe, founding dean of the university, who served from 2004 to 2010.

This year’s winners were also announced. The 2012 winners are: Eleanor Adiong, coordinator for faculty events; Outstanding Dedication to CMU; Otto Chacon, facilities manager, Outstanding Commitment to the Community; Jill Duffy, student development coordinator, Outstanding Service to Students; Carol Miller, research business manager, Outstanding Innovation Award; and Shayan NoorMohamed, senior accountant, Outstanding Newcomer Award.

In addition to these, a special Thorpe award was given to Robert T. Monroe, associate dean, who will be returning to Pittsburgh next academic year.

“We are grateful for Bob’s commitment to our Qatar campus. Like Dean Thorpe, Bob’s contribution will far outlive his time here. We will miss him and we wish him every success back on the main campus,” Baybars said.

2012 Winners

Eleanor Adiong

Otto Chacon

Jill Duffy

Carol Miller

Robert T. Monroe

Shayan NoorMohamed

International Focus Draws Campuses Closer

Sarah Nightingale

More than 6,900 miles separate Pittsburgh from Doha. But the two campuses are much closer than you think.

Carnegie Mellon’s international focus and emphasis on diversity has shrunk that gap and made others similarly insignificant.

Last month, 10 students from Doha traveled to Pittsburgh during mid-semester break as part of the university’s IMPAQ QT (Initiating Meaningful Pittsburgh and Qatar Ties) program, founded in 2008. A week later, seven students from Pittsburgh followed them home by traveling to Doha for their own cultural experience.

For Amal Osman, a junior in business administration, this was her first visit to Pittsburgh. She said she was on a mission to “enrich student experiences on both campuses.” She also visited Washington, D.C., and said traveling to the two U.S. cities shed some light on the diverse American landscape and helped her “realize how different the two cities are — in terms of people, urban design, lifestyle and much more.”

Pittsburgh students had similar thinking.

William Mistiano, an international relations and politics major, became interested in visiting Doha upon hearing about IMPAQ QT during orientation. He applied to travel to Qatar, searching for a chance to see what life is like for his fellow students.

“Having gone to Qatar, I have realized how much of an amazing place it is, and how great it is that Qatar Foundation is putting resources into education, which will prove invaluable in the future,” Mistiano said.

Pittsburgh students visited such sites as Al Jazeera’s Studios and Mathaf: Arab Museum of Modern Art, as well as participated in a Qatari cultural event, “Freej,” which was put on by Carnegie Mellon’s Qatar Student Association.

International Day

Carnegie Mellon Qatar recently celebrated its diverse student population, representing 39 different countries from around the world, at International Day in mid April. Performances included everything from bagpipes, to flamenco and traditional desi dance groups from the Indian subcontinent.

Jevika Shetty (TPR’13) said she is excited to be a part of the multicultural student body at Carnegie Mellon.

“Everyone is proud of their identity and is open to share it,” Shetty said.

“I thank the administration at Carnegie Mellon for providing us with the opportunity to get in touch with our roots and give a true representation of our culture and heritage.”

Cohon Elected to AAAS

Teresa Thomas

Carnegie Mellon President Jared L. Cohon has been elected to the American Academy of Arts and Sciences along with some of the world’s most accomplished leaders from academia, business, public affairs, the humanities and the arts.

President Cohon is the 18th Academy member from Carnegie Mellon.

The new class will be inducted at a ceremony on Oct. 6 at the Academy’s headquarters in Cambridge, Mass.

Since its founding in 1780, the Academy has elected leading “thinkers and doers” from each generation, including George Washington and Benjamin Franklin in the 18th century, Daniel Webster and Ralph Waldo Emerson in the 19th, and Albert Einstein and Winston Churchill in the 20th. The current membership includes more than 250 Nobel laureates and more than 60 Pulitzer Prize winners. A list of the new class listed by discipline can be found at: www.amacad.org/news/classlist2012.pdf.

One of the nation’s most prestigious honorary societies, the Academy is also a leading center for independent policy research. Members contribute to Academy publications and studies of science and technology policy, energy and global security, social policy and American institutions, the humanities and culture, and education. Members of the 2012 class include winners of the National Medal of Science, the Lasker Award, the Pulitzer and the Shaw prizes, the Fields Medal, MacArthur and Guggenheim fellowships, the Kennedy Center Honors; Grammy, Emmy, Academy, and Tony awards; the Avery Fisher Prize, and election to the Rock and Roll Hall of Fame.
Actor, Alumnus Patrick Wilson Returns To Deliver Keynote

Carnegie Mellon alumnus Patrick Wilson (A’95) will deliver the keynote address for CMU’s 115th Commencement at 11 a.m., Sunday, May 20 in Gesling Stadium. Wilson, a critically acclaimed, award-winning actor, was most recently seen in Paramount Pictures’ “Young Adult” and also starring in the CBS drama, “A Gifted Man.”

“The breadth and depth of Patrick’s work demonstrates to our graduating seniors that education, and perseverance beget success,” said Carnegie Mellon President Jared L. Cohon. “We are grateful to have Patrick back on campus for this important occasion.”

Wilson has deep roots at Carnegie Mellon. He has been a trustee of the university since 2009 and serves on its Education Affairs and Enrollment Committee. His continuing dedication to the university, and his demonstrated pride as a member of the university community, have helped generate even broader awareness of Carnegie Mellon. He is married to actress Dagmara Dominczyk (A’98), who also is a Carnegie Mellon School of Drama graduate.

“I’m delighted to meet and speak with the very distinguished and accomplished class of 2012,” Wilson said. “Who knows, the paths ahead might lead any one of this year’s graduates back to CMU to serve as the keynote speaker at commencement someday.”

Wilson began his career on the stage, receiving a Tony Award nomination for Best Actor in a Musical, as well as a Drama Desk Award nomination, for his work in the 2002 Broadway revival of “Oklahoma!” Wilson has appeared in numerous feature films including “Little Children,” “The Ledge,” “The A Team,” “Watchmen,” “The Phantom of the Opera,” “The Alamo” and “Insidious,” the highest grossing horror film of 2011. He received Emmy and Golden Globe nominations for Best Supporting Actor for his work on the HBO miniseries “Angels in America.” He is currently at work filming “The Conjuring,” scheduled for release in 2013.

CMU’s 2012 commencement ceremony will include nearly 4,000 graduates and approximately 10,000 attendees. The commencement ceremony will be webcast at www.cmu.edu/commencement.

CMU To Award Five Honorary Degrees

It is a Carnegie Mellon tradition to award honorary degrees at commencement to exemplary leaders, whose life and work serve as an inspiration for Carnegie Mellon students, faculty and staff. The diversity of this year’s candidates represents the intersection of art and technology, a university hallmark. Receiving honorary degrees will be:

**Renée Fleming**

Famed soprano and musical statesman, she has performed in the world’s greatest opera houses and concert halls, while embracing other musical genres and media forms. Her numerous honors include, among others, three Grammy Awards and 13 Grammy nominations. In service to the community, she is an advocate for literacy, a champion of the music of contemporary composers and she serves on a number of civic boards. Fleming, who was born in Indiana, Pa., and grew up in Rochester, N.Y., sang for the Pittsburgh Opera Theater and CMU artist lecturer in voice Mildred Posvar early in her career. In recent seasons, Fleming has hosted a wide variety of television and radio broadcasts, including the Metropolitan Opera’s “Live in HD” series and the PBS “Live From Lincoln Center.” As a musical statesman, she has performed on distinguished international occasions that include the 2006 Nobel Peace Prize ceremony and the 2008 Olympic Games in Beijing. Fleming was featured in the 2009 televised “We Are One: The Obama Inaugural Celebration at the Lincoln Memorial,” has performed for the United States Supreme Court and the Prince of Wales at Buckingham Palace, and in 2008, she became the first woman in the 125-year history of the Metropolitan Opera to solo headline an opening night gala.

While she won the 2010 Grammy Award for Best Classical Vocal Performance for a collection of rarely heard Italian arias, Fleming has recorded music ranging from songs by indie-pop artists and rock bands to jazz and the movie soundtrack of “The Lord of the Rings: The Return of the King.” Her 2004 book, “The Inner Voice,” chronicled her path to artistic success, and was subsequently published in France, the United Kingdom, Germany, Japan and Russia.

Among her numerous awards are the Fulbright Lifetime Achievement Medal (2011); Sweden’s Polar Prize (2008); the Chevalier de la Légion d’Honneur from the French government (2005); and Honorary Membership in the Royal Academy of Music (2003). She holds honorary doctorates from the Eastman School of Music and the Juilliard School.

**Temple Grandin**

Grandin embodies leadership and triumph over personal challenge. Despite her severe childhood autism, she has achieved great success in furthering the field of livestock handling as well as in the understanding of autism itself.

Grandin, a professor of animal science at Colorado State University, has done extensive and significant work in the field. She received a bachelor’s degree in psychology from Franklin Pierce College in 1970, a master’s degree in animal science from Arizona State University, and a doctorate in animal science from Colorado State University.

Continued on page six.
Defying Expectations

English Student, Classmates Write Their Own Paths Through College

Shilo Rea

Caroline Kessler has always wanted more than the traditional college experience. And she got it ... in just three and a half years.

Kessler, a native of Woodstock, Md., will talk about how she and her classmates are constantly redefining “typical” and “normal” when she delivers the student address at this year’s commencement.

“I was really shocked and surprised to be chosen [as the student speaker] — and very, very excited,” said Kessler, who graduated in December with a creative writing major and a religious studies minor. “I want to share the amazing experience I had at Carnegie Mellon with the people who made it so amazing — my classmates, the faculty, staff and families.”

The Dietrich College Dean’s List student has won awards for her poetry and fiction and scholarships and The New York Times. Grandin was featured on National Public Radio, on such television programs as “Primetime Live,” “The Today Show,” “Larry King Live,” “48 Hours” and “20/20,” and in national publications such as Time, People, Forbes, U.S. News and World Report and The New York Times. Grandin was named one of Time Magazine’s 100 most influential people of 2010.

She has been a prolific author in the animal science field, publishing several hundred industry articles, technical papers and book chapters, including “Animals in Translation,” a New York Times bestseller. She has received numerous awards from both industry and humane associations and five honorary doctorates. She also has authored books and produced several DVDs on the subject of autism.

Grandin will serve as the keynote speaker at the Department of Psychology’s diploma ceremony.

Ruth Gruber

Doctor of Humane Letters

Ruth Gruber, writer, photojournalist, diplomat and humanitarian, began early to make her mark on the world. She received her undergraduate degree from New York University at age 18 and in 1930 earned a master’s degree from the University of Wisconsin. At only 19, she received a fellowship to travel to Germany for graduate study. At age 20, in 1931, she earned her Ph.D. from the University of Cologne and became the youngest person in the world at that time to earn the degree. These achievements were all the more remarkable given that she was a young, single woman in the 1930s.

Gruber returned to the U.S. as a journalist, heightening awareness of the dangers of Nazism, reporting on women’s lives under Communism and Fascism, and filing the first stories from the Siberian Arctic in 1935. During WWII, she was named special assistant to President Franklin Roosevelt’s Secretary of the Interior Harold Ickes, who sent her on a secret mission to escort 1,000 Jewish refugees to the United States on a transport hunted by Nazi seaplanes and U-boats.

Gruber has authored 19 books about current events, seven of those on Jewish history after WWII. Her book, “Destination Palestine: The Story of the Haganah Ship Exodus 1947,” was used as source material for the bestselling book and award-winning epic film, “Exodus.” Her book, “Haven: The Dramatic Story of 1,000 World War II Refugees and How They Came to America,” was based on case histories she recorded as she accompanied the refugees on their voyage, and was the subject of a 1993 musical play, a 2000 film and 2001 CBS mini-series. She published her memoirs, “Ahead of My Time: My Early Years as a Foreign Correspondent,” in 1991 and became the subject of a 2010 documentary, “Ahead of Time.”

Gruber’s many honors include the Na’amat Golda Meir Human Rights Award and awards from the Simon Wiesenthal Center’s Museum of Tolerance. Her book, “Raquela: A Woman of Israel,” won the National Jewish Book Award in 1979. She was honored for her work by the National Coalition Against Censorship as well as by the Institute of International Education naming a chair in her honor to annually rescue scholars around the world whose lives are threatened by their Democratic ideals.

Daniel Kahneman

Doctor of Business Practice

Daniel Kahneman, the 2002 Nobel Prize winner in Economic Sciences and New York Times bestselling author, is widely regarded as the world’s most influential...
Schedule of Events

Commencement weekend at Carnegie Mellon involves much more than the ceremony itself. Below is a list of events that will keep campus humming May 19-20.

Saturday, May 19

8 - 9 a.m.
Phi Beta Kappa Honor Society Initiation Ceremony
McConomy Auditorium, UC
Sponsors will send invitations directly to inductees. An optional complimentary attire degree from the Hebrew University of Jerusalem in 1954 and his Ph.D. from the University of California, Berkeley in 1961. He began his career in cognitive psychology at the Hebrew University, where he also began a lengthy collaboration with Amos Tversky in the field of judgment and decision making. Kahneman took a position with the University of British Columbia in 1978, and he became heavily involved in the new approach to economic theory, behavioral economics.

He moved on to the University of California, Berkeley in 1986, and to Princeton University in 1993, where Kahneman is currently the Eugene Higgins Professor of Psychology emeritus and professor of public affairs emeritus at the Woodrow Wilson School of Public and International Affairs.

Kahneman will speak at the Carnegie Mellon doctoral hooding ceremony.

Richard P. Simmons
Doctor of Science and Technology
Richard P. Simmons has been compared to Andrew Carnegie, not only for his remarkable achievements in the world of business, but also for his unwavering community service. Under his leadership, Allegheny Ludlum became one of the world’s most successful specialty steel companies, employing thousands of Pittsburgh residents. For more than 30 years, his dedication to community through philanthropic work and investment have benefited the region.

After earning his degree in metallurgy in 1953 from the Massachusetts Institute of Technology, Simmons began his career with Allegheny Ludlum as a research metallurgist, moving on to various managerial positions with Republic Steel and Latrobe Steel before returning to the company in 1968. With entrepreneurial vision, he led a management buyout in 1980, took the company public again in 1987 and orchestrated a merger with Teledyne in 1996. It is in this entrepreneurial spirit that Carnegie Mellon established Greenlighting Startups, which supports and accelerates the commercialization of groundbreaking ideas.

Simmons also has been recognized for his outstanding engineering achievements, winning numerous awards and retaining memberships in distinguished organizations, including his election to the National Academy of Engineering in 1998. He holds four honorary doctorates.

His extensive community work includes serving as chairman and executive committee member of the Allegheny Conference on Community Development, director and chairman of the United Way, trustee of The Carnegie Museums of Pittsburgh, emeritus trustee of the University of Pittsburgh, and chairman and life director of the Pittsburgh Symphony. Simmons has been credited with personally rescuing the Pittsburgh Symphony from financial collapse with his gift. He is an active supporter of venture capital startups in Western Pennsylvania. Simmons also has been a generous benefactor of Carnegie Mellon and as a distinguished adjunct professor of business management, taught a popular course in the Tepper School of Business.

He will speak at the Tepper School of Business diploma ceremony.

6 - 8 p.m.
Cap & Gown Distribution
McKenna/Peter/Wright Room, UC

8 p.m.
Doctor’s Hooding Ceremony
Wieand Gym, UC

Sunday, May 20

7:30 - 10 a.m.
Diploma Ceremonies and Department Events
Specific times and locations are listed on page 8.

7:30 - 11 a.m.
Cap & Gown Distribution
McKenna/Peter/Wright Room, UC

8 a.m. - 2 p.m.
Commencement Welcome Area
Wean Commons, UC

First Aid Area
Athletic Equipment Desk, UC

Cap & Gown Distribution
McKenna/Peter/Wright Room, UC

9:30 a.m.
Navy ROTC Commissioning Ceremony
Soldiers & Sailors Memorial Hall (off campus)
4141 Fifth Ave., Pittsburgh, PA 15213

10 - 11 a.m.
Honors Ceremonies
Various locations across campus.

11:30 a.m. - 1:30 p.m.
Human-Computer Interaction Undergraduate Presentation
A presentation for HCl graduates to their families and peers will take place in Room 136A, Adamson Wing, Baker Hall. RSVP to indras@cs.cmu.edu.

Noon - 8:30 p.m.
Diploma Ceremonies and Department Events
Specific times and locations are listed on page 8.

4 - 6 p.m.
CMU Graduate Jazz Reception
Tartans Pavilion, Resnik House
The CMU Alumni Association will host a reception for all graduates and their families. RSVPs were due by May 11.

5 - 7 p.m.
Carnegie Mellon Advising Resource Center (CMARC) Reception
Singleton Room, Roberts Engineering Hall
Sponsors will send information directly to invitees.

6 - 8 p.m.
Cap & Gown Distribution
McKenna/Peter/Wright Room, UC

8 a.m. - 2 p.m.
Department Events
Various locations across campus.

8:30 - 10 a.m.
School of Computer Science Breakfast
Perlis Atrium, Newell-Simon Hall
RSVP to scs-rsvp@cs.cmu.edu or 412-268-8525.

10 a.m.
Robing for all commencement participants
Various locations across campus.

10:15 - 11 a.m.
Procession of graduates
Various locations across campus.

11 a.m.
Main Commencement Ceremony
Gesling Stadium

Noon - 5 p.m.
Cap & Gown Return
McKenna/Peter/Wright Room, UC

12:30 - 7 p.m.
Diploma Ceremonies and Department Events
Specific times and locations are listed on page 8.

First Aid Area
Athletic Equipment Desk, UC

UC = University Center

living psychologist. He is credited with pioneering work in the field of behavioral economics, more specifically, the exploration of the irrational ways humans make decisions regarding risk. He was awarded the most prestigious prize in the field of economics “for having integrated insights from psychological research into economic sciences.”

In addition to the Nobel Prize, Kahneman has received numerous honors and awards, including the 2007 Lifetime Contribution Award of the American Psychological Association and the 1982 Distinguished Scientific Contribution Award of the American Psychological Association. He is also a member of many distinguished elected societies, including the National Academy of Science, the American Academy of Arts and Sciences, the American Psychological Association and the American Psychological Society. Kahneman holds a number of honorary doctorates.

He received his degrees in the field of psychology, earning his undergraduate degree from the Hebrew University
**Diploma Ceremonies**

Families and friends are invited to attend their graduate’s diploma ceremony. For additional information about a specific diploma ceremony, please contact the appropriate academic department. Beginning at 12:30 p.m. on Sunday, shuttle service will be provided between campus and off-campus diploma ceremonies (except the Entertainment Technology Center).

**Bachelor of Humanities & Arts/Bachelor of Science & Arts/Bachelor of Computer Science & Arts**

Sunday, May 20

Ceremony: 2 p.m.

Reception: following ceremony

Soldiers & Sailors Memorial Hall

Ceremony: 2 p.m.

Reception: following ceremony

Gregg Hall/Porter Hall 100

**Chemistry**

Sunday, May 20

Ceremony: 2 p.m.

Reception: following ceremony

McConomy Auditorium, UC

Ceremony: 8:30 a.m.

Reception: following ceremony

Wiegand Gymnasium, UC

Ceremony: 1 p.m.

Reception: following ceremony

Schatz Dining Room, UC

**Biomedical Engineering**

Saturday, May 19

Ceremony: Noon

Reception: following ceremony

Martin F. unit, University Center (UC)

**Business Administration (Bachelor’s)**

Sunday, May 20

Ceremony: 2 p.m.

Reception: following ceremony

Phipps Conservatory (off campus), 1 Schenley Park/700 Frank Curto Dr.

**Chemical Engineering**

Sunday, May 20

Ceremony: 1 p.m.

Reception: following ceremony

Heinz College

Saturday, May 19

Ceremony: 2 p.m.

Reception: following ceremony

Phipps Conservatory (off campus), 4400 Forbes Ave.

Carnegie Music Hall, Carnegie Museum (off campus)


Reception: following ceremony

Gregg Hall/Porter Hall 100

**Computer Science & Arts/bachelor of Science & business administration**

Saturday, May 19

Ceremony: 8:30 a.m.

Reception: following ceremony

Winchester Thurston School Auditorium (off campus), 4400 Forbes Ave.

Carnegie Museum, 4400 Forbes Ave.

Reception: following ceremony

Winchester Thurston School Auditorium, 4400 Forbes Ave.

Carnegie Music Hall, Carnegie Museum (off campus)

Reception: following ceremony

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Carnegie Music Hall, Carnegie Museum (off campus)

Reception: following ceremony

Winchester Thurston School Auditorium, 4400 Forbes Ave.

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East Harlem Students Visit Pittsburgh Through College Bound Program

Heidi Opdyke

It started as a conversation between friends who met at Carnegie Mellon. Helen Wang (DC’99), associate director of Student Life for First Year Houses and housefellow for Morewood E-Tower, was talking with Christopher Cormier (A’01), whose friend worked at Renaissance Charter High School for Innovation in East Harlem, N.Y.

The result: 35 students visited Carnegie Mellon to learn more about what college is like.

The school, in its second year, has nearly 250 ninth and 10th grade students and that number will grow to 500 by the 2013-2014 school year. About 90 percent of the students receive free and reduced priced lunches, said Arthur Samuels, who coordinates the school’s College Bound program.

“Students who grow up in wealthier parts of New York City grow up immersed in a college-going culture,” Samuels said. “Chances are their parents went to college (or beyond), and it is taken for granted that they will attend a college-going culture,”

Students who visit a minimum of three schools outside of New York City each year, but the majority have been small liberal arts schools.

The recent five-day “College Experience Road Trip” was free for the high school students who participated and included stops at CMU, the University of Pittsburgh, Erie Community College, Dickinson College and SUNY Fredonia.

“Going to Pittsburgh and getting to see CMU and Pitt seemed like a great opportunity,” he said.

Wang, along with first-year CMU students, organized 10 hours of programming for the high school students. She said faculty, staff and students from around the university worked to make the day a special one.

“It was a beautiful gesture illustrative of the best of Carnegie Mellon in that it allowed our students to give back by sharing their unique experiences while listening and guiding younger students outside of this context,” Wang said.

Giving Back

Residents of Morewood E-Tower and invited resident assistants from first-year houses served as mentors and guides for the day, and escorted the high school students to sit in on college classes such as the History of Rock ‘n’ Roll.

“I hope we can do more things like this because it was transformative for the students who came in ways we can’t fully appreciate,” Wang said. She said the first-year students also learned from the experience. “A lot of the programming is embedded with the hope that students can learn to see outside of themselves. This experience let them do just that.”

Other stops on campus included the Digital Fabrication Lab, seeing the Society of Automotive Engineering’s Formula One racecar and learning about conducting research in an academic library.

“The students were amazed,” Samuels said. “They thought the architecture lab was like something out of James Bond. I think what made the most impact was attending class. They really enjoyed the discussions. One student told me that ‘this makes me want to study harder, so I can go here.’”

The day concluded with a Pittsburgh-inspired dinner and talk. Nico Slate, an assistant professor in the Department of History, discussed the Arts Greenhouse, a program that brings Pittsburgh teens to Carnegie Mellon to write and record their own hip hop music.

“Every child should have an equal opportunity to end up at a place like Carnegie Mellon,” Slate said. “Like the Arts Greenhouse, the Innovation [high school] visit leveraged Carnegie Mellon’s many resources to the benefit of students who might not otherwise even dream of coming to a place like CMU.”

Wang said many of the students are interested in Carnegie Mellon’s Pre-College programs and its Summer Academy for Mathematics and Science.

Samuels said the school would like to bring another group of students to CMU next year.

“We would love to come back. This visit set the bar very high,” he said. “There are a lot of students in East Harlem who now want to apply to CMU.”

Sky’s the Limit

High Point Pittsburgh Team Creates Virtual Simulation of US Steel Tower Rooftop Venue

Pam Wigley

If you’ve ever imagined the view of Pittsburgh’s Golden Triangle and beyond from the tallest point in town, virtual satisfaction is headed your way.

A Carnegie Mellon team of researchers and graduate students has created Virtually There — High Point Pittsburgh, an interactive experience that lets people envision a three-story addition to the U.S. Steel Tower.

The virtual reality program enables anyone with a computer and Internet access to explore the proposed one-acre space atop Pittsburgh’s tallest building, which would be the largest, highest place atop any building on Earth.

A product of the High Point Pittsburgh Investigation, the latest phase of Virtually There (VT), was unveiled in late April in the Randy Pausch Studio of the Entertainment Technology Center (ETC), where the project’s producers, artists and programmers offered highlights of what they call their “destination in the sky.”

After an overview presentation, guests accessed the VT site from on-site computers and got a glimpse of the virtual simulation’s interactive kiosks, which took them on a tour of the structure’s media gallery and video theaters, as well as the proposed restaurant/café/bar, central atrium and numerous panoramic viewing areas.

VT also allowed site visitors to ride elevators or climb stairs to the rooftop promenade and enjoy a virtual fireworks extravaganza.

“The talents of many people have combined to create an exciting, interactive online environment unlike anything you’ve ever seen,” said David Bear, a fellow in Carnegie Mellon’s STUDIO for Creative Inquiry who has overseen the multi-year High Point Pittsburgh project. “It’s a virtual destination that allows anyone to experience an imaginary place we hope one day might become a reality. In a very real sense, it provides a whole new way to see what can be.”

The VT team includes producer Sean McChesney, programmers Siddhesh Vichare and Cintia Higashi, and artist/designer Sun-Moon Hwang, all ETC graduate students working under faculty advisers Mk Haley, ETC associate executive producer, and John Dessler, an ETC lecturer. CMU School of Architecture fourth-year students Richman Neumann, Daniel Rapoport and John Kim provided architectural design and décor concepts for the project.
Carnegie Mellon produces leaders. Its students are highly sought after and so are its faculty members.

Pradeep Khosla, the Philip and Marsha Dowd University Professor and dean of the College of Engineering, has been recommended to become chancellor at the University of California, San Diego. The University of California Board of Regents will vote on his recommendation May 16.

Robotics Professor Chuck Thorpe, founding dean of Carnegie Mellon’s Qatar campus, has been named senior vice president and provost at Clarkson University in Potsdam, N.Y.

Both earned graduate degrees at Carnegie Mellon, they joined the faculty here, their careers blossomed and they contributed greatly.

“Pradeep has been one of the most important contributors to Carnegie Mellon of any faculty member I can think of during my 35 years at the university,” said Provost and Executive Vice President Mark Kamlet. “He has been an excellent educator and scholar as indicated by the fact that he was elected to the National Academy of Engineering and was a University Professor.

“But, it is as a department head and dean that his accomplishments stand out as truly extraordinary. He has been tireless, not only in his role as dean of CIT, but in his leadership in establishing international campuses of Carnegie Mellon (in Greece, Portugal, Rwanda and China), fundraising, and important construction and building projects. He was also a great friend. He will be most sorely missed here at CMU.”

Kamel emphasized Thorpe’s contributions as a pioneering dean of the Qatar campus.

“Chuck Thorpe was the right person at the right time in his several key roles at Carnegie Mellon,” Kamlet said. “For me, this was best represented by his willingness to move from being the head of our Robotics Institute to become the founding dean of Carnegie Mellon’s undergraduate campus in Qatar. The importance of that role, as the pioneer who forged our new campus, is hard to overstate. He signed up for three years and we somehow convinced him and Leslie, his wife, to stay for six. The university will forever be grateful for his leadership and efforts.”

During nearly eight years as dean, Khosla, who earned his master’s and Ph.D. degrees at CMU, initiated reforms to the undergraduate curriculum, which helped the College of Engineering continue to be recognized among the world’s leading engineering programs. The college was ranked 12th by the 2011-12 Times Higher Education World University Rankings.

“I believe that I leave CIT and all of its initiatives in good hands,” Khosla wrote in an email to faculty and staff in the College of Engineering. “Our rankings are superlative, our students are the best, our sponsored research has doubled, our alumni are engaged and very supportive, and we have launched initiatives in Pittsburgh, the Silicon Valley and internationally. While I may not be here physically to partake in the future successes of CIT and Carnegie Mellon, I will be watching closely and take pride in the fact that I have been a part of this great institution and that as an alum I will always be a part.”

Thorpe, who earned his Ph.D. in computer science at CMU, was director of the Robotics Institute for four years before becoming dean of Carnegie Mellon’s Qatar campus from 2004 to 2010. He was inducted into the Robot Hall of Fame for his efforts to create autonomous vehicles.

“I got my job at Clarkson because of all of you [at CMU],” Thorpe said. “They looked at the success of the Robotics Institute and the Qatar campus and decided they’d like to have some of the same things happen. Of course, the institute has grown even more after I left, with Matt Mason running it. The Qatar campus keeps adding students and majors, under Dick Tucker and now Iker Baybars.

“So it’s pretty clear to me that the successes of those places has more to do with the quality of the faculty, staff and students than with my leadership. Thanks to all of you for making me look good,” he said.

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Adviser Helps Students Research Their Passions 

Bruce Gerson

(SURG) programs. Bravin worked with School of Art Professor Mary Weidner on a related SURG-funded project this semester.

“I think it’s really important, especially for undergraduates, to apply for grants,” King said. “It helps them learn how to apply for future fellowships and graduate school, and receiving a grant shows that they are already respected by others in their field.”

Bravin turned to the Undergraduate Research Office when she needed funding to create large-scale, mixed-media paintings. She wanted to compare Depression-era prizefighting, or boxing, in the United States with the recent resurgence of dogfighting in Kabul, Afghanistan. International media reports about dogfighting, once banned by the Taliban, sparked her interest.

“Both of these ‘blood sports’ rose in popularity during times of social, political and economic unrest,” Bravin said. “I had worked with Elaine for a couple of years and thought she’d be a great adviser. I was also in constant contact with Stephanie Wallach and Jennifer Keating-Miller from the Undergraduate Research Office as I wrote my first research proposal.”

King was in contact with Bravin about once every two weeks last summer.

“I never want to be a ‘helicopter adviser’ — I only want to be there to engage in a critical dialogue that results in students pushing their ideas,” King said.

Bravin said they discussed her research on films, books and photographs to inform her art. She also sent King photos of her paintings as they progressed. “King is a faculty member and an art critic. She provided me with helpful feedback about my paintings and the processes I was using to create them,” Bravin said.

“I saw a major change in Ashley’s work from her proposal to her final project. There’s a maturation process,” King said. “I wish our students could continue developing their projects even further.”

Many of King’s former students who applied their undergraduate research experiences to life beyond Carnegie Mellon. One of those students is Stefanie Kim (A’09).

Kim approached King after attending her talk “Likeness: Transformations of Portrayal After Warhol” exhibit at the Mattress Factory in 2009. She expressed interest in creating an art history book for children about Warhol, and King challenged her to take it a step further by producing a limited-edition run of her book.

“Stefanie was so amazed that two faculty members bought her $40 book at Meeting of the Minds,” King said. Kim is now working toward a master’s degree in education at Boston University and is a first-grade teaching intern at The Chestnut Hill School in Massachusetts.

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News Briefs

Steven Huth Named CIO, Vice Provost

Provost and Executive Vice President Mark Kamlet has announced that Steven Huth, chief information officer for Carnegie Mellon Qatar and a member of the Computing Services management team in Pittsburgh, will succeed Joel Smith as CMU’s chief information officer and vice provost, effective Aug. 1. This past fall, Smith announced he would be stepping down to join the faculty in CMU’s Philosophy Department.

Before joining Computing Services in 2009, Huth served as technical director of Q-CERT, a joint Carnegie Mellon/iqt/QATAR program to improve information security in Qatar. During his 15 years at CMU, Huth also has been the deputy director of the CERT program, one of the oldest and most respected computer security organizations, and managed the Information Technology Department for the Software Engineering Institute.

Prior to coming to CMU, Huth was manager of Data Networking and Academic Systems Development at the University of Pittsburgh, where he led the transition to a new campus network, taught telecommunications management, and worked with Academic Computing to provide a variety of student services.

2012 Andy Awards Seeks Nominations

Nominations for the 2012 Andy Awards are now being accepted. The Andy Awards, named for Andrew Carnegie and Andrew Mellon, are a tribute to the spirit of teamwork and dedication embodied by CMU staff.

Individual staff members and teams of colleagues whose work has had a significant impact on the university are recognized for their outstanding performance and commitment to excellence through the Andy Awards program.

Awards are given in six categories:

- Department of Commitment to Students
- Innovation, Culture, University Citizenship and Community Contributions
- All nominations must be submitted by July 10. For more information and nomination forms visit www.cmu.edu/andyawards/nomination/index.html.

Game Console Changes Could Save $1 Billion

Adding an “auto-power down” feature to popular video game consoles, like Nintendo’s Wii or Microsoft’s Xbox 360, may be one of the most cost-effective strategies for controlling demand for electricity. As the proliferation of video game consoles continues, the modification could save consumers $1 billion per year in electricity costs.

“We are seeing this big increase because the number of video game consoles is increasing, the amount of time spent on the consoles is increasing so the amount of energy used is also skyrocketing,” said Eric Hittinger, a Ph.D. candidate in the Department of Engineering and Public Policy.

CMU-Q Promotes Research for Women

Female high school students and undergraduates from universities in Qatar recently gathered at Carnegie Mellon Qatar for the “Opportunities for Undergraduate Research in Computer Science” (OurCS) Qatar 2012 conference. The program was assisted by the National Academy of Sciences.

The participants learned about the important role women can play in developing Qatar’s knowledge-based economy by contributing to research efforts in computer science and related fields. The program featured prominent female computer scientists, including keynote speaker Sherrin Amer-Yahia, principal research scientist at Qatar Computing Research Institute and former senior scientist at Yahoo Research.
Every day is Earth Day for Billy Epting, who in a year saved more than 1,900 pounds of carbon dioxide and more than $800 by riding his bicycle to his lab.

Through Epting’s work spearheading bike-friendly initiatives, CMU’s Mechanical Engineering Department has been recognized as a bronze level Bicycle-Friendly Business (BFB). CMU was one of 67 awardees announced this year by the League of American Bicyclists.

“This is a wonderful honor for the university and I’m proud to be part of this growing initiative to use bicycles as an easy option for transportation,” said Epting, a mechanical engineering Ph.D. student from Coopersburg, Pa. Epting reports that he has burned more than 80,000 calories pedaling to school for the past year.

“CMU’s Mechanical Engineering Department is at the forefront of a movement to make American businesses more competitive, sustainable and attractive to the best and brightest employees,” said Andy Clarke, president of the League of American Bicyclists. “An investment in bicycling enhances employee health, increases sustainability and improves the bottom line.”

Nadine Aubry, the Raymond J. Lane Distinguished Professor and head of CMU’s Mechanical Engineering Department, praised Epting for helping obtain the bicycle award. “Our students are extremely busy, but they always make time to be involved with positive initiatives that spill into the community,” Aubry said. Her department set up a special bicycle repair stop for people who commute by bicycle.

Last year, a handful of engineering students working with the Steinbrenner Institute for Environmental Education and Research launched the “Heels on Wheels” program to encourage more CMU faculty, students and staff to ride bicycles to work.

With this recognition CMU’s Mechanical Engineering Department joins more than 400 local businesses, government agencies and Fortune 500 companies across the United States that have been designated bicycle-friendly by the League of American Bicyclists.

Data Scientists Helping Hollywood

In Hollywood, movies about “mad scientists” have helped studios attract moviegoers for generations. Today, however, studios are looking for a different type of genius: data scientists.


Bicycle-Friendly

Mechanical Engineering Recognized by League of American Bicyclists

Byron Spice

Randy Pausch’s “Last Lecture,” which remained on the New York Times bestseller list for more than 112 weeks and was translated in 48 languages, is now available with video and new insights in an enhanced ebook edition titled “The Last Lecture — The Legacy Edition” (Hyperion). The enhanced ebook includes more features such as:

• a new foreword by Randy’s widow, Jai Pausch, who writes about how the book affected Randy, their family, and the larger community before and after his passing;
• video clips from the Last Lecture throughout the book, providing readers with a truly immersive reading and viewing experience;
• never-before-seen photos of Randy and his family;
• never-before-seen video with the book’s co-author, Jeffrey Zaslow (DC’80), in which he shares details on his friendship with Randy and why he thinks Randy touched millions of people;
• memorable clips from Diane Sawyer’s ABC News special, such as Randy visiting the Pittsburgh Steelers and loving one of his childhood dreams by playing ball with legendary receiver Hines Ward;
• Randy’s commencement speech to the Carnegie Mellon class of 2008;
• Jeffrey’s convocation speech to the Carnegie Mellon class of 2014;
• a new “Your Last Lecture” section that includes a series of questions to prompt readers’ inspiration into action, such as: As a child, what were your dreams? Did you find a way to make them come true, in some form, as an adult? Does Randy’s perspective help you look at current brick walls in your life differently? What is the most difficult question you’ve ever had to ask?

For more and to purchase a copy, go to www.thelastlecture.com/aboutbl.htm

Libraries To Circulate iPads, Sewing Machines

Last year, the University Libraries introduced Kindles loaded with a variety of books, available for 14-day check out at Hunt, Mellon Institute and Sorrells E&S libraries (http://guides.library.cmu.edu/kindle). Now the libraries have added iPads and portable sewing machines to circulate.

iPads at Sorrells — Ten iPad2s were purchased for a pilot project, funded by a grant obtained from the Berkman Faculty Development Committee by librarian Donna Beck. Nine iPad2s are available at the Sorrells Library circulation desk for seven-day check out. Each machine circulates with these peripherals: Singer manual, DVD, operation instructions, a Quick Start Guide, bobbins, needles, a walking foot and a side cutter.

Sewing machines at Hunt — Two Singer 3300 Series portable sewing machines were purchased from the dean’s discretionary fund (gift monies) at the request of students in the College of Fine Arts. They are available at the Hunt Library circulation desk for seven-day check out. Each machine circulates with these peripherals: Singer manual, DVD, operation instructions, a Quick Start Guide, bobbins, needles, a walking foot and a side cutter.

CMU Joins Foundation for Improving Urban Life

Carnegie Mellon has joined the New Cities Foundation (NCF), a prestigious new global initiative, the Institute for Complex Engineered Systems and the Pennsylvania Smart Infrastructure Incubator.

The NCF partnership involves four of Carnegie Mellon’s research institutes, including the Remaking Cities Institute (RCI), the Traffic2 initiative, the Institute for Complex Engineered Systems and the Pennsylvania Smart Infrastructure Incubator.

Don Carter, director of the Remaking Cities Institute at CMU’s School of Architecture, said work on research issues pertaining to urban development continues to attract support from government agencies, foundations and corporate partners, which are also at the core of the NCF membership community.

For more information about the foundation, see www.newcitiesfoundation.org.
CMU Joins NYC Partnership

continued efforts and we congratulate all the partners who worked to get this done,” said Carnegie Mellon President Jared L. Cohon.

The consortium proposes taking the MTA building at 370 Jay St., an underused, run-down building in the heart of downtown Brooklyn, and renovating it into a major hub for research. A projected completion date of 2017 is being targeted, although CUSP will immediately begin operations in space in Brooklyn.

Steven E. Koonin, a former undersecretary in the Department of Energy and provost of the California Institute of Technology, will be CUSP’s inaugural director.

Meanwhile, Carnegie Mellon and Steiner Studios continue to pursue the prospects for a digital media project at the Brooklyn Naval Yard. The program will be valuable for Carnegie Mellon faculty and students and to Pittsburgh’s and Pennsylvania’s efforts to build their film and digital media industries by deepening connections to the New York entertainment cluster.