



Carnegie Mellon

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Plaza Project To Stop Chronic Water Leak

■ Bruce Gerson

When it rains, it pours. For Director of Enrollment Services Lisa Krieg and her staff who work on the Warner Hall A level under the concrete plaza, that adage can be taken quite literally.

“When it rains heavily it pours through the ceiling into different parts of our offices, on our computer desks, tables and chairs. We use trash cans and recycling bins to put under the leaks,” said Krieg, who even has a plastic shower-curtain-like device with a hose attached to the ceiling in her office to help divert water into a closet trash can.

While Krieg has experienced the nagging problem for the past 18 months since moving into her new office, the

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Full Steam Ahead



PHOTO BY HEATHER MULL

IT'S FULL STEAM AHEAD FOR CARNEGIE MELLON PRESIDENT JARED L. COHON (LEFT) AND THE CLASS OF 2014, WHICH HE GREETED ALONG WITH THEIR FAMILIES DURING HIS OFFICIAL WELCOME AT ORIENTATION. CMU'S BOARD OF TRUSTEES EXTENDED COHON'S TERM FOR ONE YEAR THROUGH JUNE 30, 2013, AND THE PRESIDENT SHARED HIS TOP PRIORITIES FOR THE NEXT THREE YEARS WITH THE UNIVERSITY COMMUNITY IN A UNIVERSITY-WIDE EMAIL IN AUGUST. HIS SEVEN PRIORITIES ARE RESEARCH AND EDUCATIONAL INITIATIVES; THE PITTSBURGH CAMPUS MASTER PLAN; THE CAPITAL CAMPAIGN; BUDGETING AND FINANCIAL MANAGEMENT; INTERNATIONAL PROGRAMS; COMMUNITY SUCCESS: DIVERSITY; AND WESTERN PENNSYLVANIA IMPACT. THE BOARD OF TRUSTEES ALSO EXTENDED EXECUTIVE VICE PRESIDENT AND PROVOST MARK KAMLET'S TERM THROUGH JUNE 2013. FOR MORE ON PRESIDENT COHON'S PRIORITIES AND ON THE TERM EXTENSIONS, VISIT THE PIPER ONLINE AT [HTTP://BIT.LY/CMUPIPER](http://bit.ly/CMUPIPER).

Dzombak, Moura Named University Professors

■ Chriss Swaney

Engineering professors David A. Dzombak and José M.F. Moura have been awarded the prestigious distinction of University Professor, the highest academic accolade CMU faculty members can attain.

“Both professors David Dzombak and José Moura are outstanding researchers and particularly dynamic with our students as they work to help our graduates hone the problem-solving

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CFA is Heart of Oakland's Cultural District

■ Eric Sloss

Each year, the College of Fine Arts (CFA) hosts approximately 250 concerts, 50 performances, 40 lectures, 30 exhibitions and 10 symposiums and conferences. Many of the events are free or at a minimal cost and open to the campus community, making Carnegie Mellon the heart of Oakland's cultural district. This year promises to be another exceptional year on the Pittsburgh campus, with everything from an exhibition celebrating Steelers Nation to a memorial concert honoring the great CMU pianist Earl Wild.

Here's a look around the galleries, stages, concert halls and studios of CFA.

The Miller Gallery

The academic year begins in tandem with the gridiron season in Pittsburgh

and the Miller Gallery is taking notice by presenting an exhibition celebrating the collections, rituals and obsessions of Steelers Nation. The exhibit, which features tattoos, fan memorabilia and a complete Steelers Room, examines the unique nature of Steelers fans and their tendencies to construct personal and social identities in relation to the team.

“WHATEVER IT TAKES: Steelers

Fan Collections, Rituals, and Obsessions” is curated by Jon Rubin, associate professor of art, and Astria Suparak, director of the Miller Gallery. At 5 p.m., Friday, Sept. 10, there will be a tour of the “Steelers Room” by Danny DeLuca. The “Immaculate Reception” will follow from 6 to 8 p.m. The exhibit runs through Jan. 30, 2011.

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Q&A: Cynthia Lamb on Successes of CMU Press

■ Shilo Raube

Cynthia Lamb is the senior editor for Carnegie Mellon University Press, which recently published its fastest-selling book in its 35-year history. The Piper caught up with Lamb to discuss the press' best-seller, "The Paris of Appalachia," and to find out about the role she plays and what's next in store at the CMU Press.

How did you discover Brian O'Neill's book, "The Paris of Appalachia," for the press?

Brian and his book came to me in early August 2008. Brian had written a book and had been in negotiation with a publisher, but that publisher's funding situation was constrained. I learned of Brian and his book by chance during a call to Pop City's editor and publisher Tracy Certo. The online magazine had run a feature of another of the press' local authors, Peter Oresick. Tracy told me about Brian, and as a courtesy, I wrote an e-mail note to him, stating that I would contact him down the road about his book. He responded to my message.

Then, within a day or so after these email exchanges, there was a knock at the office door. There stood this mild-mannered looking man with a bit of apprehension in his eyes, but he was smiling. Typically, prospective authors do not show up unannounced at publishers' doors. Generally speaking, I don't recommend that authors do this.

What was your reaction when you first read it?

Brian's manner and what I felt was his profound love of his work seemed genuine, and these qualities prompted me to take the manuscript home that night to read. It didn't take long to decide it was a book I'd like to see the press publish. I had read a lot about Pittsburgh history and I was drawn right into his version of the story of Pittsburgh. Its tone, Brian's tone, were notably different than many other writers and their accounts of Pittsburgh. I liked the fact that Brian isn't even from Pittsburgh, yet it was obvious he thinks highly of this city and its people. I'm not from Pittsburgh either, but his book must have struck the same chord in others as it did for me.

Does it surprise you that "The Paris of Appalachia" has become the fastest-selling book in the history of the press?

Yes and no. I knew that we were thrilled to publish the book, but I didn't understand at the time Brian's popularity. As a Pittsburgh Post-Gazette columnist, Brian already had an audience. But after watching Brian in action, how he has promoted his book with speaking engagements, interviews, community events, bookstores rounds and through his naturally pleasant demeanor, the book has sold remarkably well. Most books lose a little steam over time, but "The Paris of Appalachia" has an enduring quality.

What are some other CMU Press bestsellers?

The poet Rita Dove's book "Thomas and Beulah" has sold more copies than books of poetry generally do. Ted Kooser's "Winter Morning Walks: 100 Postcards to Jim Harrison" has also sold prolifically. Kooser was a two-term Poet Laureate of the United States. The other volume of poetry, which sells very well, is Samuel Green's "The Grace of Necessity." Green was a Poet Laureate of Washington State. All of these titles are collections of poetry that resonate with readers across the spectrum.

Also, the press published the 25-year retrospective from the editorial cartoonist for the Pittsburgh Post-Gazette. Rob Rogers' book, "No Cartoon Left Behind: The Best of Rob Rogers," has sold all over the country.

I understand you're cultivating a series of books about the Pittsburgh region. How did you get involved with this project and how do you envision the series?

After having published a collection of oral histories of family members of Pittsburgh steelworkers, Ellie Wymard's "Talking Steel Towns;" "Warhol-O-



PHOTO BY KEN ANDREYO

CYNTHIA LAMB

Rama," Oresick's collection of poems that surveys the life of the Pittsburgh icon Andy Warhol; and "The Paris of Appalachia," I've found that there is still much to be written about Pittsburgh and this region of western Pennsylvania. I look for books that are not necessarily academic in nature but nonetheless offer much valuable information about this area.

Are there other books in the CMU press pipeline for this year?

The next book, which is western Pennsylvania-related, is "The Pittsburgh Stories of Willa Cather" edited by Oresick. Cather's stories are for the first time in the public domain. While Cather is best known as a daughter of Nebraska and for her prairie novel trilogy, she spent 10 formative years in turn-of-the-century Pittsburgh, where she began her writing career and where she completed several early novels.

You've worked at the press for a number of years. Could you tell us about some of your roles?

I began my job by becoming immersed, step-by-step, in the publishing process. In my first years, pre-computer design, I learned much about publishing by helping with the paste up of book covers. As software improved, I assisted the cover designers in practical matters, such as soliciting from the authors the core elements of their books scheduled for publication, including book cover art, biographical information, book blurbs and author photographs. I obtained the ISBNs, the barcodes, for each book and applied for Library of Congress numbers, all of the steps it takes to make a book. Eventually, I undertook the proofreading of each book's text and its cover, pre-publication. Then I began working closely with the various book manufacturers that produce Carnegie Mellon University Press books.

What is involved as your role as senior editor?

In the past five years, my role at the press has evolved rapidly, largely because of the ever-increasing complications faced by university and independent presses to keep pace with electronic marketing and

changes in technology. There is great pressure upon publishers to move into digital publishing, which prompts the question of rights.

Carnegie Mellon University Press has long been recognized for its list of fine poets, and therefore, holds a prominent place among university presses. The press has published these authors over the course of their careers. In addition to authors outside the university, the press publishes a variety of Carnegie Mellon faculty, whose works fit with the subjects published by the press. As senior editor, I work closely with each of these authors. Each year the press acquires new authors, and I've assumed the same type of relationship, guiding them through the process of publication. I continue to work with our designers, managing the details, which make each book a finished product.

My role at the press expands each year, largely because publishing is much more complex than when I began. For example, marketing the press' books has changed dramatically, because of Amazon.com and other .com vendors.

In addition to working with authors, I work with undergraduate and graduate students who have fulfilled prerequisites to become part of the English Department's editing and publishing course. I value greatly this part of my job because these wonderfully bright and conscientious young people add incalculable energy and life to the press, and we learn from each other. Many have gone on to publishing careers and we hear from them frequently.

One aspect of my job, which I am very excited about, is that in the past three years I have been responsible for finding and acquiring new subject matter and authors. This challenge keeps me on my toes and it's one of my most gratifying roles.

What types of books does CMU Press publish?

The press' list is primarily composed of poetry by individuals, including translations. The press has published translations of Bulgarian, Portuguese and Czech poetry. There are two series, the Poetry Series, which comprises first-time published collections, and the Classic Contemporaries Series. This series consists of books that were previously published by another press, became out of print and subsequently put back into print by Carnegie Mellon. The director of the press, Gerald Costanzo, sees these books as too valuable to be no longer available, and he created this series to extend the life of earlier works. The Classic Contemporaries Series also has included fiction titles that also have gone out of print.

The press also publishes new fiction, mostly short story collections. The variety of series continues to grow, including nonfiction, comprised of memoirs of writers and their respective writing lives, dramaturgical studies and dramatic interpretations of classic stage plays, scholarly art books, and most recently, books of social history content.

the PIPER
9/10 Issue

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In addition, Carnegie Mellon University does not discriminate in admission, employment or administration of its programs on the basis of religion, creed, ancestry, belief, age, veteran status, sexual orientation or gender identity. Carnegie Mellon does not discriminate in violation of federal, state, or local laws or executive orders. However, in the judgment of the Carnegie Mellon Human Relations Commission, the Presidential Executive Order directing the Department of Defense to follow a policy of, "Don't ask, don't tell, don't pursue," excludes openly gay, lesbian and bisexual students from receiving ROTC scholarships or serving in the military. Nevertheless, all ROTC classes at Carnegie Mellon University are available to all students.

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

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

Obtain general information about Carnegie Mellon University by calling 412-268-2000.

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School of Music Shares Pittsburgh Symphony Orchestra Ties

■ Kristi Ries

It's no surprise that the Pittsburgh Symphony Orchestra (PSO) and Carnegie Mellon School of Music have much in common. Yet the many points of intersection between these two institutions are dizzying to consider.

On the surface, there are differences; one provides a prized destination for professional musicians and the other, a pivotal educational experience.

A conservatory education is an experience like no other. While most disciplines involve sitting in a lecture hall with a hundred other students as a faculty member speaks to the crowd; in music, it's a different world. One-on-one training with a master benefits students' growth as musicians, whether they decide to ultimately become performers, composers, administrators or educators. Many musicians often serve the dual roles of performer and educator.

For example, 22 members of the PSO — many who are principal or co-principal players — teach at Carnegie Mellon. Their instruments include strings (violin, viola, cello, double bass, harp); woodwinds (flute, oboe, clarinet, bassoon); brass (trumpet, horn, trombone, tuba); percussion (timpani, drums, marimba, xylophone); and piano. Their studios are comprised of aspiring performers in each respective instrument who meet for weekly group sessions as well as private lessons.

Graduate student Mark Addleman came to Carnegie Mellon for its faculty — specifically, for horn player William Caballero.

"Mr. Caballero is an incredible musician," Addleman said. "Through the many opportunities to hear a master play, I've been able to create a better concept of my sound, all the while receiving instruction on how to portray my musical ideas."

The PSO has always attracted top quality talent in its guest artists, and that includes performances by CMU voice professors Mildred Miller Posvar and Douglas Ahlstedt, as well as jazz singer and artist lecturer Betsy Lawrence. Staff pianist Rodrigo Ojeda has played alongside the orchestra in a number of performances in Heinz Hall and on tour. At Carnegie Mellon, Ojeda provides accompaniment for student recitals, chamber and major ensemble performances, and also teaches K-12 students in the Preparatory School. The very pianos that Ojeda and others like international stars Lang Lang and Emanuel Ax play are serviced by none other than Carnegie Mellon's piano technician, Peter Stumpf.

Three PSO members are also Carnegie Mellon alumni: Cellist Charlotta Klien Ross and violinist Claudia Mahave earned their master's of music degrees here. Principal bassist Jeffrey Turner, who also teaches in the School of Music, earned a master's of music in orchestral conducting in 2009.

Returning to academia to pursue his master's degree was a longstanding goal for Turner; when the opportunity came along to study with Robert Page, the Paul Mellon University Professor and director of Choral Studies, it was one he



JEFF TURNER (A '09) IS THE PRINCIPAL BASS FOR THE PITTSBURGH SYMPHONY ORCHESTRA AND A FACULTY MEMBER AT THE UNIVERSITY.

PHOTO COURTESY OF THE CARNEGIE MELLON SCHOOL OF MUSIC 2010

simply couldn't pass up.

"Dr. Page has had a profound effect on me as a musician and as a person," Turner said. "We might discuss Mahler one day during my studio class, and he'd pull out a score that he used to lead the Cleveland Orchestra."

Page himself has conducted many of the nation's top choruses and orchestras, which includes previously serving as music director for Pittsburgh's Mendelssohn Choir and as guest conductor of the PSO on many occasions.

Additionally, the insight Turner gained from Donald Wilkins and Reza Vali — who he counts among his faculty mentors — has convinced him that current students are receiving top-notch instruction. His education also benefits his bass students, who now have a better

view of their role in an orchestra as a whole. With his ears now attuned to an entire ensemble, Turner looks forward to continuing his performance career, and one day, to expanding his role on the podium.

"The best thing about performing is that it continually inspires me to grow in musicality and expression, and not become too technical when teaching my students," Turner said. When the day comes to trade in his bow for a baton, Turner will relish the changing role thanks to his studies at CMU. "Students' enthusiasm when first playing a Mahler symphony is incredible; you know you're witnessing a landmark experience for those young musicians, and to be on the podium leading that is a dream come true for me."

Dzombak and Moura Named University Professors CONTINUED FROM PAGE ONE

skills so essential to achieving success in today's competitive global economy," said Mark S. Kamlet, Carnegie Mellon executive vice president and provost. "We applaud their designation as University Professors, and we look forward to their ongoing innovative academic leadership."

Dzombak's research and teaching focuses on water quality engineering, environmental remediation and energy-water nexus issues. He has received numerous professional honors and accolades. He was elected to the National Academy of Engineering in 2008 and was named a fellow of the American Society of Civil Engineers in 2002. He is a recipient of the Excellence in Review Award from Environmental Science and Technology, the Professional Research Award from the Pennsylvania Water Environment Association, the Jack Edward McKee Medal from the Water Environment Federation, the Aldo Leopold Leadership Program Fellowship from the David and Lucille Packard Foundation, the Walter L. Huber Civil Engineering Research Prize from the American Society of Civil Engineers, the Harrison Prescott Eddy Medal from

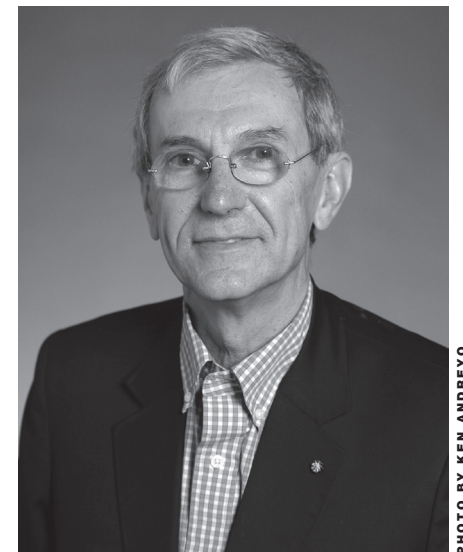
the Water Environment Federation and a National Science Foundation Presidential Young Investigator Award.

"I am humbled by my election as a University Professor, and I'm honored to join this distinguished group of colleagues," said Dzombak, the Walter J. Blenko Sr. Professor of Civil and Environmental Engineering and faculty director of the Steinbrenner Institute for Environmental Education and Research. Dzombak earned a Ph.D. in civil and environmental engineering from the Massachusetts Institute of Technology and his bachelor's and master's degrees in civil and environmental engineering from Carnegie Mellon. He also holds a bachelor's degree in mathematics from Saint Vincent College in Latrobe, Pa.

Moura's research interests are in statistical signal and image processing. He is an IEEE fellow, an AAAS fellow and a corresponding member of the Academia das Ciências of Portugal. He is a recipient of the 2000 IEEE Third Millennium Medal for outstanding achievements and contributions, the 2003 IEEE Signal Processing Meritorious Service Award, the 2006 IBM Faculty Award, the 2007 CIT Outstanding Research



DAVID DZOMBAK



JOSÉ MOURA

Award and the 2008 Philip L. Dowd Fellowship Award for Contributions to Engineering Education. In 2008-2009, he was president of the 15,000-member IEEE Signal Processing Society.

Moura, director of the Carnegie Mellon/Portugal program and a professor of electrical and computer engineering, said he was both honored and humbled by the University Professor designation.

"I am extremely pleased with this honor as I continue to work with my stu-

dents and colleagues to pursue innovative research projects. I will also continue my international education efforts with Portugal colleagues and push the educational envelope for Carnegie Mellon globally," Moura said.

Moura holds a doctor's degree in electrical engineering and computer science, and electrical engineering degrees from the Massachusetts Institute of Technology and the Instituto Superior Tecnico in Portugal.

PHOTO COURTESY OF DAVID DZOMBAK

PHOTO BY KEN ANDREVO

Leadership Academy Selects 2010 Class

■ Heidi Opdyke

The Carnegie Mellon Leadership Academy has announced its Class of 2010 in June. Created by Human Resources, in collaboration with the Tepper School of Business' Executive Education Program, the academy's purpose is to equip managers and directors with the skills and analytical thinking they need for promotion.

The program was expanded this year to include staff in grades 58-62 who have demonstrated exceptional potential and commitment to the university. Read more about the inaugural academy class in the March issue of the Piper, which can be downloaded at www.cmu.edu/news/news-notes/piper/Piper+March10.shtml.

The second class includes:

- **Philip Bottonari**, manager of Leadership & Principal Gift Strategy, Analysis and Support
- **Melissa Carrozza**, assistant business manager of the Human-Computer Interaction Institute and Machine Learning Department
- **Nancy Doyle**, manager of the director's office and administration in the Information Networking Institute
- **Connie Deighan Eaton**, cluster services manager for Computing Services
- **Colleen Everett**, administrative director for the Computer Science Department
- **James Frick**, director of admissions, operating and recruiting for Tepper's master's degree programs
- **Heather Johnson**, assistant director of the Tepper Executive Education Center
- **Chris Kamerling**, Financial Systems manager
- **Shushan Klein**, assistant manager for the Desktop Support Program
- **David Koltas**, business manager for Architecture
- **Justina Marino**, a senior development associate
- **Jennifer McNabb**, assistant director for the Office of International Education
- **Nancy Monda**, business manager for the Modern Languages Department
- **Monique Moreland**, assistant director of Student Services for Tepper
- **Kevin Nowicki**, a financial analyst for the SEI
- **Stephen Pajewski**, director of Tepper's undergraduate business administration program
- **Katie Price**, International Cash Management accountant
- **Yvette Raymond**, a division manager for Legal/HR/Risk
- **Judy Schieck**, director of Gift Analysis and Reporting
- **George Skoptsov**, senior software engineer for the Robotics Institute/NREC
- **Eric Spaulding**, communications manager for Corporate Relations
- **Teresa Violi Trombetta**, assistant director for Development Events
- **Katherine Walter**, senior University Events coordinator

ChargeCar Charges Forward

■ Byron Spice

Researchers in the university's electric car conversion project, ChargeCar, have announced a contest to find the most efficient methods for managing power in their electric vehicles. The grand prize: an electric car.

"The number of variables that could possibly affect an electric car's performance and the strain on its batteries is virtually infinite," said Illah Nourbakhsh associate professor and director of the Robotics Institute's CREATE Lab.

ChargeCarPrize is free and open to virtually anyone anywhere in the world. Contestants can download a software package, data files on driving behavior and some examples of power management policies from the project website, <http://chargecar.org>. Some basic knowledge of Java programming is required to encode a contestant's power management algorithm, said Alex Styler, a robotics graduate student supervising the contest.

"But even if you don't know anything about programming, you could learn what you need in a day," Styler added. "The most important quality for winning this contest is intuition."

ChargeCar is a community-centered research project of the CREATE Lab that seeks to revolutionize commuting with electric vehicles. Working with Pittsburgh-area mechanics, researchers are developing methods for converting gas-powered cars into affordable electric vehicles practical for commuting. The electric cars will employ artificial intelligence to manage their power.

Calendar of Events

Save the Date!

Homecoming & Reunion Weekend 2010

Nov. 5-6

Highlights for this year include the Alumni Awards Ceremony & Reception on Friday, the All Campus Tailgate on Saturday before the football game, and many workshops, panels and lectures throughout the weekend featuring alumni, students, faculty and staff. For more details, visit www.cmu.edu/homecoming.

Miller Gallery Exhibition

"WHATEVER IT TAKES: Steelers Fan Collections, Rituals, and Obsessions" Curated by Jon Rubin and Astria Suparak Opening Reception: 5-8 p.m., Friday, Sept. 10 Exhibit runs through Jan. 30, 2011

Carnegie Mellon Philharmonic

Director of Orchestral Studies Ronald Zollman leads the Carnegie Mellon Philharmonic in its inaugural concert of the 2010-2011 academic year. Tickets are \$5 for adults, \$4 for seniors and free for Carnegie Mellon students with ID. 8 p.m., Wednesday, Sept. 15 Soldiers & Sailors Memorial Hall, Oakland

Constitution Day

Philosophy Professor Robert Cavalier will present a keynote address, "Toward a More Deliberative Democracy." A copy of the Bill of Rights will be on display. 4:30 p.m., Thursday, Sept. 16 Posner Center

Staff Council General Body Meeting

Noon, Thursday, Sept. 16 McConomy Auditorium, University Center All staff are welcome to attend.

ULS Journeys — "In Africa's Hands"

Distinguished Service Professor Jendayi Frazer is known worldwide as a policy leader and expert on African Affairs. 4:30 p.m., Monday, Sept. 20 Porter Hall 100 (Gregg Hall)

Peace Week Celebration

Yuki Miyamoto, assistant professor of peace, justice and conflict studies at DePaul University of Chicago will speak. 6 p.m. Wednesday, Sept. 22 Margaret Morrison Carnegie Hall 103 (Breed Hall)

Carnegie Mellon Women's Association (CMWA) Fall Welcome Reception

New and current CMWA members are invited to attend. The annual event is hosted by CMWA Honorary President Maureen Cohon. RSVP

to Patricia Dugan at pld@andrew.cmu.edu or 412-268-1966. 4:30-6:30 p.m. Thursday, Sept. 23 President's Residence www.cmu.edu/cmwa

13th International Exhibition of Botanical Art & Illustration

The exhibition will include 110 watercolors, drawings and prints representing the work of 72 artists from 15 countries. Every three years, the International series features the works of talented botanical artists from around the world. Sept. 24-Dec. 17. Hours: 9 a.m. to noon and 1 to 5 p.m. Monday-Friday; 1 to 4 p.m. Sunday, (except Nov. 25-28 and Dec. 10). The institute will also open on 1-5 p.m. Saturday, Nov. 6 during Carnegie Mellon's homecoming. Docent-led tours will be offered on Oct. 3 and 17, Nov. 7 and 21 and Dec. 5. The Hunt Institute for Botanical Documentation, Fifth floor, Hunt Library <http://huntbot.andrew.cmu.edu/>

2010 Intel Labs Pittsburgh Open House

Come see the latest research in the areas of robotics, cloud/cluster computing, databases, embedded computing, parallel algorithms, optical networking, big-data analytics, computational health, computational agriculture, the digital home, perception and learning systems. 3-6 p.m., Tuesday, Sept. 28 Collaborative Innovation Center, fourth floor

"Up From the Blue"

Susan Henderson (HS'89), a two-time Pushcart Prize-nominee and the founder of the literary blog LitPark: Where Writers Come to Play, will give a reading from her debut novel, "Up From the Blue." 7:30 p.m., Tuesday, Sept. 28 Adamson Wing, Baker Hall

"Identities in Conflict: The Recognition of Migrants"

University of California, Irvine Professor Leo Chavez's research examines various issues related to transnational migration, including immigrant families and households, labor market participation, motivations for migration, the use of medical services, and media constructions of "immigrant" and "nation." Co-sponsored by the Center for the Advancement of Applied Ethics and Political Philosophy (CAAEP) 4:30 p.m., Tuesday, Sept. 28 Porter Hall 100 (Gregg Hall)

Sexual Assault Adviser Training

The Sexual Assault Advisers include staff, students and faculty who are trained to work with survivors of sexual assault, and to provide non-judgmental support, resource information

and referrals. The training program, administered through the Student Life Office, requires participation in five sessions. For more information, and the application form, due by 5 p.m. Monday, Sept. 20, visit www.studentaffairs.cmu.edu/student-life/saa/training.html. Training sessions are 5-9 p.m., Wednesdays, (Sept. 29, Oct. 6, Oct. 13, Oct. 20 and Oct. 27) Office of Student Life

Beginnings: From Dorm Room to Board Room

Show + Tell is a new story series featuring dynamic young alumni sharing their stories from across academic disciplines. Hear the story of ModCloth — and the company's plans for the future — as told by three alumni, Allen Lu (H&SS '01), Evan Tahler (CIT '06, CMU '08) and Jay Palat (HNZ 04). 6:30-8:30 p.m., Thursday, Sept. 30 Rangos, UC

Project Olympus: Show and Tell 10

4-5:30 p.m., Tuesday, Oct. 5 Rashid Auditorium, Hillman Center RSVP at www.olympus.cs.cmu.edu/events/registration100510/

Drama Performance

"He Who Gets Slapped" Directed by Tony McKay 8 p.m., Tuesday-Friday, and 2 and 8 p.m., Saturday Sept. 30-Oct. 9 Chosky Theater, Purnell Center for the Arts www.cmu.edu/cfa/drama/

Carnegie Mellon Wind Ensemble

Director Denis Colwell leads the Carnegie Mellon Wind Ensemble in its inaugural concert of the 2010-2011 academic year. Tickets are \$5 for adults, \$4 for seniors and free for Carnegie Mellon students with ID. 7:30 p.m., Sunday, Oct. 3 Carnegie Music Hall, Oakland

2010 International Festival

"Borders: Crossings, Conflicts, Connections" Oct. 7-9 University Center www.studentaffairs.cmu.edu/oie/newsandevents/internationalfestival/ See page 12 for more information.

Staff Council General Body Meeting

Noon, Thursday, Oct. 21 McConomy Auditorium, UC All staff are welcome to attend

To submit an event you'd like to publicize, complete the event form at www.cmu.edu/contact/submit-event.



ONLINE: MONTHLY CHARGE CAR WINNERS WILL BE ANNOUNCED AT [HTTP://CHARGE CAR.ORG/INVENT](http://chargecar.org/invent)

In addition to batteries, the ChargeCar project will use supercapacitors as part of each vehicle's power system. While batteries have trouble handling the surges of power associated with starting or stopping a vehicle, supercapacitors can rapidly discharge current for acceleration and can rapidly store current produced by regenerative braking. Supercapacitors can thus improve vehicle performance, while reducing wear-and-tear that can dramatically shorten the life of expensive batteries.

The trick, Nourbakhsh says, is finding the best way to handle the flow of power between batteries, supercapacitors and motor. To make these decisions, the system can rely on knowledge of the driver's normal routes, driving habits, traffic or road conditions, geography, time of day and even weather conditions.

The ChargeCar project is sponsored by Carnegie Mellon alumna Donna Auguste and her husband David Hayes, Google Inc., The Heinz Endowments and Bombardier Inc.

C-MITES Goes Global

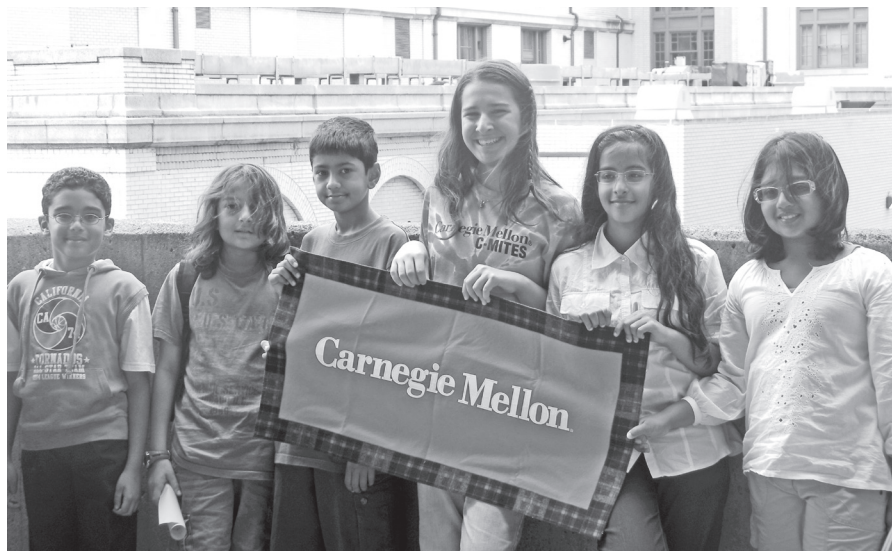
SIX STUDENTS TRAVELED FROM QATAR TO PARTICIPATE IN PROGRAM

■ Bruce Gerson

Every summer Matt Anticole, an instructor in C-MITES, Carnegie Mellon's Institute for Talented Elementary and Secondary Students, plays a game in his "Amusement Park Physics" Workshop in which the winner is the student who traveled the farthest to participate. This summer he said a student from Cleveland would've normally won if not for three fifth-graders who traveled 8,000 miles from Doha, Qatar.

The three students in his workshop, Fayadh Kabir, Sahana Kanabar and Al Jazi Al-Thani, and three schoolmates from the Qatar Academy, a K-12 school in Education City, spent two weeks at Carnegie Mellon and Pittsburgh in early July participating in C-MITES workshops and the Athletic Department's FITT Camp, where they enjoyed swimming, tennis, hiking, racquetball, volleyball, golf and basketball.

With side trips to the Carnegie Science Center, the Carnegie museums, the Pittsburgh Zoo and PPG Aquarium, Kennywood Park and a Pirates baseball



PICTURED IN THE TOP PHOTO ARE THE SIX STUDENTS FROM QATAR. THEY ARE (FROM LEFT) MURSI SURAG, TARAN KANABAR, FAYADH KABIR, SAHANA KANABAR, AL JAZI AL-THANI AND TANYA SHIBU.

"I learned a lot about physics," Kabir said. "We learned about circular motion and the three laws of Newton and how they explained the entire universe. It's an enjoyable class."

In addition to "Amusement Park Physics," which included a field trip to Kennywood, some students enrolled in

tional computer programming concepts, such as loops, nesting, if/else statements and functions.

In "Bridge Boom," third-grader Mursi Surag learned about the bridges in Pittsburgh.

"I liked the building bridges part," Surag said. "I made it out of K'Nex (toys) and called it 'Fort Cable.'"

The students, who were funded by the Qatar Foundation, were accompanied on the trip to Pittsburgh by their parents and siblings, who were impressed with the workshops, fitness camp and Pittsburgh.

"The program has been excellent," said Paula Brunning, mother of Sahana and Taran Kanabar. "From the first day they came home with lots of enthusiasm. Taran was extremely excited to show what he's been doing. This is our first time to Pittsburgh and I'm really

impressed," she said.

"She's enjoyed her stay and she enjoyed her lessons," said Rooma Shibu, mother of Tanya Shibu. "It's been good exposure for her to meet different kids. She found the Alice programming a bit challenging, but that's the idea. She has to push herself."

Khalid Surag, father of Mursi, said he hopes to have a C-MITES program in Doha, and Judy Hallinen said that could be a possibility.

"It's something we'll be exploring with the Qatar Academy and CMU-Q," said Hallinen, director of the Leonard Gelfand Center for Service Learning and Outreach, which served as host for the families.

In the meantime, students from Qatar would be welcome back next summer.

"We're going to evaluate the comments from the families. It's been a very positive experience. They say they would recommend the program to others. If there's an opportunity to do this next year, we'd be happy to continue the partnership," she said.

C-MITES, in its 19th year, offers challenging programs for academically gifted students who have completed grades 3 through 8. The enrichment curriculum complements what students have studied in school in mathematics, science and the humanities. Activities used in the courses have been recommended by the National Council of Teachers and Mathematics, the National Science Teachers Association and the National Council of Teachers of English. Nearly 5,000 students participate annually.



ONLINE: FOR MORE ON C-MITES, VISIT WWW.CMU.EDU/CMITES FOR MORE ON THE GELFAND CENTER, VISIT [HTTP://GELFAND.WEB.CMU.EDU/](http://GELFAND.WEB.CMU.EDU/)

game, they got quite a workout, mentally, physically and culturally.

In the morning the gifted students from the Qatar Academy's Talents in Ability, Aptitude, Achievement and Performance (TAP) program, took part in C-MITES workshops.

"Bridge Boom" and "Programming Using Alice."

In "Programming Using Alice," Tanya Shibu and Taran Kanabar learned computer-programming skills by telling fun and creative stories using the 3-D Alice software. They also learned tradi-

Fall University Lecture Series Promises Diverse Topics

■ Ken Walters

At a university that covers everything from global technology and climate change to video games and public policy, it's not surprising the key word to describe Carnegie Mellon's University Lecture Series (ULS) is diverse.

"Some schools like to choose a theme for their lecture series," said Indira Nair, CMU's vice provost emerita. "Our lecture series is an umbrella, providing broad cover for and reflection of the diverse range of topics in which our students, faculty and staff are interested and involved."

This umbrella approach also provides for moments of unexpected learning, exposing students to topics they may not have known about or considered before attending a lecture, Nair adds.

"Many of the turning points of our lives, the true learning, comes unexpectedly from outside the classroom," she said. "The University Lecture Series provides the opportunity for students to

both deeply explore their specific field of study, or to glimpse into subjects they may have never considered before."

The lecture series is a partnership between the Office of the Vice Provost for Education and the Division of Student Affairs. Student Affairs plans events such as Constitution Day and the International Festival in October, while the vice provost's office hosts the Journeys Lectures, in which faculty members share their reflections on the everyday actions, decisions, challenges and joys that make up their lives.

In addition, Nair notes that faculty have designed several three-unit courses that include attendance at selected university lectures as the foundation for regular course discussions and assignments. "These courses have proven to be a great way to broaden students' horizons, raise their intellectual curiosity and develop reflective thinking," said Nair, who recently retired as vice provost for education.

ULS is also an umbrella for other lecture series on campus, including the Humanities Center, the Center for the Arts in Society, the Environmental

Distinguished Lecture Series and lectures sponsored by colleges, schools and departments. All lectures are free and open to the public.

The lecture series will continue to add speakers throughout the fall semester. For the most updated list of speakers and events, visit www.cmu.edu/uls. Some notable ULS events scheduled include:

4:30 p.m., Thursday, Sept. 16, Posner Center

Constitution Day features a keynote lecture on deliberative democracy by Carnegie Mellon Philosophy Professor Robert Cavalier, and a weeklong exhibit featuring the Bill of Rights in Posner Center.

4:30 p.m., Monday, Sept. 20, Porter Hall 100 (Gregg Hall)

A Journeys Lecture by Distinguished Service Professor Jendayi Frazer, former U.S. assistant secretary of state for African affairs, will discuss her experiences and how they have shaped her foreign policy philosophy of embracing African expertise and elevating African leaders to address problems on the continent.

6 p.m., Wednesday, Sept. 22, Margaret Morrison Carnegie Hall 103

Two Weeks of Peace will feature a speech by Yuki Miyamoto, assistant professor of peace, justice and conflict studies at DePaul University and a second-generation A-bomb survivor, who will be speaking on "Remembering Hiroshima: Imagining Peace."

8 a.m. to 5 p.m., Friday, Sept. 24, Mellon Institute Auditorium

The Rachel Carson Legacy Conference will feature a timely talk on the science, consequences and alternatives to drilling at Marcellus Shale by Karl-Henrik Robert, one of Sweden's foremost cancer scientists and the founder of The Natural Step.

Student Affairs Charts New Directions With Familiar Faces

■ Abby Houck

Gina Casalegno, Carnegie Mellon's new dean of Student Affairs, is excited about the future of her division.

"Stewarding the student experience is my passion and life's work," Casalegno said. "Our team is uniquely positioned to propel students in their successes and to catch them if they fall."

Casalegno officially assumed her role July 1, following a national search. She served as assistant dean of Student Affairs and interim director of the Career and Professional Development Center for a majority of the 2009–2010 academic year. She spent most of her eight years at the university as a coordinator and director of Student Activities.

Casalegno acknowledges students and staff alike have articulated the need for stability within Student Affairs following two years of transition in the dean's position.

"While the Student Affairs team continued to do great, entrepreneurial work, there was also a sense that we were on a 'pause,'" she said.

Casalegno said her first-hand knowledge of the division and Carnegie Mellon will help her transition into her new responsibilities. It also presents her with an opportunity to learn more from colleagues who are experts in areas different from her own.

"I see this first year as a learning year. I want to learn to see our campus through 'new eyes,'" she said. "I plan to accomplish this by meeting with partners within the university, as well as with members of our external community."

During the summer, Casalegno created new leadership positions within Student Affairs. These changes were implemented to better meet student needs and provide advancement opportunities for staff. Renee Camerlengo and Holly Hippensteel have accepted new positions as assistant deans of Student Affairs. In addition, John Hannon has been named director of the Office of Student Life and associate dean of Student Affairs.

The Student Life and Student Development departments merged to more fully integrate their shared mission of leading the residential house model and related programmatic areas. The newly configured department is now known as the Office of Student Life and will be led



GINA CASALEGNO

with the support of two associate directors. Lucas Christain has accepted the position of associate director of Student Life for Upperclass and Greek Houses, and Helen Wang has accepted the position of associate director of Student Life for First-Year Houses.

Student Affairs will launch a strategic planning process this fall that will engage staff and articulate the team's goals for the next five years. Each department will embark on a planning process using the division's strategic plan as a guide. Casalegno said she also looks forward to partnering with Amy Burkert, the new vice provost for education, on initiatives that integrate learning in and out of the classroom.

Casalegno said Student Affairs began the academic year with the opening of "The Residence," a new first-year house community at Neville Street and Fifth Avenue. Additional areas of focus during this year include investigating how to provide graduate students with a better metacurricular experience, developing new processes to assess the student experience, continuing the university's persistence and retention initiatives, and assisting with the implementation of the Diversity Advisory Council's Guiding Principles for a University Culture.

While the dean's role requires Casalegno to spend more time completing administrative work, she remains committed to interacting with individual students and student groups. She plans to hold regular office hours and encour-

ages students — as well as faculty and staff — to contact her office to share their concerns and propose new ideas.

"We often refer to Carnegie Mellon as a place where people can be 'architects of change,'" Casalegno said. "I want students to recognize that they can be 'architects of change' in ways they had not considered before. You can be an architect of change by challenging assumptions within your house community. You can be an architect of change by developing a buggy that breaks a 20-year record."

One of Casalegno's favorite experiences as a Student Affairs staff member was the inaugural Bhangra in the Burgh competition. Modern bhangra fuses hip-

hop rhythms with traditional, lively folk dancing that originated in the Punjab region of India and Pakistan.

"It was — and continues to be — a great example of what it means to be a part of a global university," she said.

What does she hope Carnegie Mellon graduates will take from their time interacting with the Division of Student Affairs?

"I hope that our work will empower students to take advantage of the opportunity to be actively engaged citizens — not only in their professional fields, but also in the ways they are involved with Carnegie Mellon as alumni and in the communities in which they reside," Casalegno said.

World-Renowned Bagpiper Named To Direct Program

■ Bruce Gerson

Andrew Carlisle, an internationally known, award-winning bagpiper from Northern Ireland, has been named Carnegie Mellon's new director of piping. Carlisle succeeds James McIntosh, who has served as interim director since Alasdair Gillies left the university last fall.

As director of piping, Carlisle will lead the university's pipe band, orchestrate its participation in competitions, university events and ceremonies, and promote the School of Music's bagpipe major.

Carlisle, who will join CMU this month, comes from the University of Ulster in Northern Ireland, where he teaches in the undergraduate music program, and has directed the university's Traditional Irish Ensemble. An accomplished teacher, he also has coached the New Zealand Police Pipe Band for the New Zealand National Championships, the British Columbia Irish Regimental Pipes & Drums in Vancouver, and the Balmoral Highlander's Pipe Band in Pittsburgh.

As a soloist he has won numerous awards and has performed at festivals across Europe, South Africa, Australia, Canada and the U.S., including a live televised concert from Oz Stadium in Sydney. He has performed at ceremonial occasions at Buckingham Palace and the White House, and has played with the Field Marshal Montgomery Pipe Band for eight years, helping them win 21 major titles, including three world championships. He also is a leading musician in the traditional band Bernagh and has performed and recorded alongside many of the world's traditional artists including The Chieftains, Phil Coulter, Carlos Nunez and Celtic Thunder.

Carlisle earned a bachelor's degree and is in the final stages of completing his Ph.D. in music from the University of Ulster.

Field of Dreams



IT WAS A DREAM COME TRUE FOR THE SOCCER TEAMS WHEN THEY RETURNED TO CAMPUS A FEW WEEKS AGO, AS THE INTRAMURAL FIELD WAS TRANSFORMED THIS SUMMER INTO A NCAA REGULATION-SIZE, FIELDTURF SOCCER FIELD FOR INTERCOLLEGIATE GAMES AND PRACTICES. ADJACENT TO THE SOCCER FIELD IS A NATURAL GRASS THROWING AREA FOR THE TRACK AND FIELD TEAMS. THE FACILITY ALSO WILL BE USED FOR INTRAMURALS, CLUB SPORTS AND GENERAL CAMPUS RECREATION.

piper
TRIVIA

Congratulations to Dolores Matthews and Melissa Carozza for answering the June-July Piper Trivia question.

Go online to the Piper+ at <http://bit.ly/CMUpiper> for this month's question. Previous winners are ineligible. Winners will receive a prize from the Carnegie Mellon Bookstore.

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Experienced Team Leads Division of Student Affairs

The Division of Student Affairs leadership team has begun a new academic year with veteran members and individuals with new appointments. They collectively oversee a team of approximately 80 professionals who impact the student experience.

Gina Casalegno, Dean of Student Affairs

Responsibilities: Casalegno leads the Division of Student Affairs, which coordinates student services and orchestrates the meta-curricular life of campus. The division is comprised of the Office of the Dean, Career and Professional Development Center, Counseling and Psychological Services, Orientation and First-Year Programs, Office of International Education, Student Activities and Student Life.

Previous post: Assistant dean of Student Affairs and interim director of the Career and Professional Development Center.

Years at Carnegie Mellon: 8

Renee Camerlengo, Assistant Dean of Student Affairs



Responsibilities: In this newly created position, Camerlengo serves as the division's liaison to Carnegie Mellon in Qatar and directs the Fifth-Year Scholar Program. She continues to serve as a liaison to the College

of Humanities & Social Sciences and as a housefellow.

Previous post: Director of special projects, Office of the Dean of Student Affairs

Years at Carnegie Mellon: 12

Holly Hippensteel, Assistant Dean of Student Affairs



Responsibilities: In this newly created position, Hippensteel leads cross-functional areas such as graduate student support, academic integrity, assessment and risk management. She continues

to serve as a housefellow, and her college liaison responsibilities have shifted from the School of Computer Science to the College of Engineering.

Previous post: Director, Office of Student Life

Years at Carnegie Mellon: 10

John Hannon, Associate Dean of Student Affairs and Director of Student Life



Responsibilities: In this newly created position, Hannon oversees the offices of Orientation and First-Year Programs, Student Activities and Student Life. He also leads the division's

emergency and crisis response efforts. Hannon continues to serve as a liaison to the Mellon College of Science and as a housefellow.

Previous post: Director, Office of Student Development

Years at Carnegie Mellon: 13

Anne Witchner, Assistant Dean of Student Affairs and Director, Office of Orientation and First-Year Programs



Responsibilities: Witchner leads planning and implementation of transition programs, including new student orientation and Family Weekend, as well as the annual Dr. Martin Luther King Jr. Day celebration. She serves as a housefellow and is a liaison to the Heinz College and the

College of Fine Arts' schools of Drama, Architecture and Design.

Years in current position: 10

Years at Carnegie Mellon: 33

Jennifer Cox-Siegel, Financial Manager



Responsibilities: Cox-Siegel works with the dean of Student Affairs to create and manage the division's budget. She also works with departmental directors and administrative staff to ensure compliance with university policies and procedures.

Years in current position: 2

Years at Carnegie Mellon: 8

Kathryn Bedell, Information Technology Manager



Responsibilities: In this newly created position, Bedell leads administrative initiatives for all information and technology systems in the division.

Previous Post: Student Affairs information technology coordinator

Years at Carnegie Mellon: 6

Linda Gentile, Director, Office of International Education



Responsibilities: Gentile leads a team that promotes and facilitates study abroad and acts as a liaison to international students, researchers and professors.

Years in current position: 1

Years at Carnegie Mellon: 7

Cynthia Valley, Director, Counseling and Psychological Services



Responsibilities: Valley leads a team of licensed psychotherapists and psychiatrists dedicated to providing psychological assessments, referrals and short-term psychotherapy/psychopharmacology. Her team offers support and consultation

to staff, faculty and parents who have concerns about the well being of particular students as well as professional training for doctoral-level psychology and psychiatry students.

Years in current position: 11

Years at Carnegie Mellon: 17

Elizabeth Vaughan, Director, Office of Student Activities



Responsibilities: Vaughan leads a team that provides advising, resource materials, leadership development opportunities and administrative support to enhance the success of more than 250 student

organizations. She also serves as the division's liaison to the Tepper School of Business.

Previous Post: Interim director, Office of Student Activities

Years at Carnegie Mellon: 6

Farouk Dey, Director, Career and Professional Development Center



Responsibilities: Dey leads a team of 20 seasoned professionals who orchestrate the career exploration, professional development, experiential learning, and employment needs for students and alumni.

Previous Post: Dey recently joined the Student Affairs team after eight years at the University of Florida, where he most recently served as senior associate director of Career Networks.

Dey's appointment followed a national search and the firm recommendation of the search steering committee, the Career and Professional Development Center (CPDC) staff, and those who participated throughout the interview process.

"I have been impressed by the talented and seasoned staff at the CPDC, the high caliber of students at CMU, and the unmatched investment of various types of employers in our students," Dey said. "Most of all, I have been impressed by the culture of collaboration and innovation on our campus and the unwavering commitment of our staff and faculty to providing individual attention to students."

Dey will complete his Ph.D. in Higher Education Administration from the University of Florida this fall.

A note about college liaisons: In addition to the leadership team members who serve as college liaisons, two Student Life staff members serve in this role. Rowshan Palmer is the liaison to the School of Computer Science and David Chickering is the liaison to the College of Fine Arts' schools of Art and Music.

PHOTOS BY TIM KAULEN AND KEN ANDREYO

Walking the Walk

ALEX HILLS SEES MISSION IN EXPANDING TECHNOLOGY

■ Heidi Opdyke

Fifty-five miles north of Anchorage, Alex Hills is at work on yet another project.

The founder of Wireless Andrew, Hills has spent much of the last four decades building information networks and programs to help humankind around the world. He's worked his magic in the Alaskan bush, Ethiopia, Singapore, South Africa and South America, to name just a few of his many stops.

But building networks is only part of what he hopes his legacy will be. It's motivating students to follow his passion for service and his life of helping others that mean the most to him.

"The students can have an amazing experience that they wouldn't have otherwise," Hills said. "It opens up a whole new world of volunteering. It also makes people realize that the world has needs that they may not have thought of. I'm sold on the whole idea. Putting a student into a position as a peer to a minister of a nation or executive of a non-profit is empowering for them."

A former vice provost and chief information officer at the university, Professor Hills was instrumental in the development and operation of CMU's computing and telecommunications systems. In 1993, Hills created Wireless Andrew, which was the first campus-wide high speed network of its kind. A precursor to that was establishing telecommunications to remote villages in Alaska during the 1970s. His wife, Meg, a nurse practitioner, joins him on trips, sometimes as a medical volunteer.

"Meg and I have been involved in volunteer work for many, many years," Hills said.

At CMU, he works with Joe Mertz in the Technology Consulting in the Global Community (TCinGC) initiative, which sends students to serve as consultants for a variety of government ministries and non-profit organizations.

Mertz said Hills has brought contacts to the program, advised students and mentored the program itself.

"He advises me and other stakeholders on how to develop and further the program," said Mertz, an associate teaching professor in The Heinz College. "He's a great person to talk with and strategize with in managing the program."

As part of the TCinGC, Hills has visited several remote islands in the Pacific Ocean and also assisted two women working on a project in Ghana.

Adrienne White (E '08) is one of two CMU students who worked with Hills in Ghana on a project for a small university striving to raise the quality of education in West Africa, but hampered by the lack of a scalable computer-based student records system. In 10 weeks, she and her partner used their skills to analyze the situation and help the university choose a software product that subsequently provided a big boost.

"It seemed a bit intimidating at first. Within that first week, Dr. Hills came to Ghana to ensure that the university's staff would support our research, which called for a survey, and that they understood what our deliverables and timeline would be. His not-overly aggressive, yet persistent attempts to win their support, laid the foundation for our project's success. His presence and personal interest in our project inspired everyone



ALEX HILLS WORKS WITH MINGI KIM (TPR '06) DURING A TRIP TO CHILE.

PHOTO COURTESY OF ALEX HILLS

involved," White said. "[We] only spent about a week with Dr. Hills in Ghana, but he made a lasting impression with us. For me, I learned two things — selflessness and humility.

"I learned so much about Africa. I had never been to Africa before that project, so my ideas on what Africa was like were shaped by what I saw on TV. I had always seen it as a place stricken with poverty, famine, disease and hopelessness, but my experience there totally shattered that. I see it now as a place full of joy, pride, optimism and opportunity," White said.

In the United States, Hills uses the CMU model to promote consulting opportunities for students at other universities.

"My hope is to continue to spawn these kinds of programs at other universities," Hills said.

Two such programs are in conjunction with the University of Alaska and Alaska Pacific University.

"The Carnegie Mellon program is highly oriented to technology," Hills said. "We assist organizations that use IT to carry out their missions. In the University of Alaska program, it's being done with the engineering school. The focus is on electrical and mechanical engineering projects. At Alaska Pacific, it's management consulting. MBA students work with non-profit organizations."

Rob Lang, dean of engineering at the University of Alaska Anchorage, said Hills has taught classes, sponsored scholarships and undergraduate research, and arranged consulting opportunities in remote villages.

"In many ways, Alaska is very advanced in some areas, such as Anchorage, but there are rural areas that have lots of needs where something could be done but there isn't talent available to work on those needs," Lang said. "Alex's strong point is engendering the vision in young people that they can make a difference in the communities where they live by applying their talents. A lot of people aspire to that, but they don't know how to do it. He's really walked the walk in making a difference around the world. The transmittal of knowledge from one generation to another genera-

tion can really make a difference."

He said that Hills has inspired students to apply for patents for devices that they have invented through their consulting work.

"He's really a very special person. The way he's able to make a difference," Lang said. "He inspires other people. He inspires me and he inspires students and other faculty. He really chooses to spend his time in a way so that he makes a difference in the world."

In South America, Hills has served as an adviser and professor. Eugenio Ponisio is the director of central information at Universidad Austral de Chile. Ponisio said when he first started at the university, he invited Hills to help design and implement the wireless network on campus. Hills also has taught courses and seminars in information systems engineering, and CMU students have worked there as part of TCinGC.

"He has been very helpful and very willing to support any kind of problem we have in order to solve it. We enjoy working with him a lot," Ponisio said. "It's always fun and interesting to work with Alex."

Hills earned his Ph.D. in engineering and public policy from CMU in 1979, a master's degree in electrical engineering from Arizona State University and a bachelor's degree in electrical engineering from Rensselaer Polytechnic Institute. His volunteer and professional efforts are extensive and include being a frequent speaker for schools and trade and professional groups; a founder of the Alaska Science and Technology Foundation; a coach in "Mathcounts," a national mathematics competition for junior high students; a member of Alaska Governor Tony Knowles' Transition Team; a member of a volunteer team building a health clinic in Costa Rica; and a member of the Anchorage Telephone Utility Board of Directors.

He is currently: a member of the University of Alaska College of Fellows, a member of the Mat-Su College Advisory Board, a member of the Palmer Chamber of Commerce, a member of the Board of Directors of the Alaska Chapter of the American Red Cross and a fellow of the Institute of Electrical and Electronic Engineers. He is also a former U.S. Army Signal Corps officer and has served as a company commander in Korea.

Sci-Fi Science

PHYSICIST AND SCIENCE CHANNEL HOST MICHIO KAKU INTERVIEWS HOWIE CHOSSET, ASSOCIATE PROFESSOR OF ROBOTICS, ABOUT SNAKE ROBOTS FOR AN UPCOMING EPISODE OF "SCI-FI SCIENCE: PHYSICS OF THE IMPOSSIBLE," WHICH AIRS ON THE SCIENCE CHANNEL. THE SERIES POSES THE IDEA THAT SCIENCE FICTION MAY NOT BE SO FAR FROM SCIENCE FACT. KAKU, ALONG WITH PRODUCER MARK BRIDGE, CAMERAMAN MIKE HODDER (HIDDEN) AND SOUND TECHNICIAN DINO DISTEFANO, ALSO INTERVIEWED SETH GOLDSTEIN, PROFESSOR OF COMPUTER SCIENCE, REGARDING HIS PROGRAMMABLE MATTER PROJECT, CLAYTRONICS.



PHOTO BY TIM KAULEN

LECTURE SPOTLIGHT: 20TH INTERNATIONAL FESTIVAL FOCUSES ON CROSSING BORDERS, MAKING CONNECTIONS

■ Jaycie L. Galbraith

The 20th annual International Festival, “Borders: Crossings, Conflicts, Connections,” will explore cross-cultural communications, current events and fascinating traditions, Oct. 7-9 in the University Center.

Sponsored by the Office of International Education, the International Festival annually seeks to create an environment of openness and empower individuals to see the world from a different perspective by engaging in conversations and having authentic encounters with others.

Enrique Morones, internationally acclaimed human rights activist, is scheduled to deliver the keynote lecture, “Border Angels: Border Realities and Immigration Today,” from 12:30 to 2 p.m. on Friday, Oct. 8 in Rangos Ballroom.

“Carnegie Mellon students, faculty and staff are located in, and come from,

many diverse cultures so we initially focused on bridging the cross-cultural borders we encounter on our campuses, but with the ongoing debate about U.S. immigration policies at the federal and state levels, we expanded our focus to include physical border crossings,” said Linda Gentile, director of the Office of International Education. “Enrique Morones’ keynote address will shed light on one aspect of the current immigration debate and help bring U.S. border issues closer to Pittsburgh.”

Morones is president of Border Angels, an all-volunteer group he founded in 1986 that places food, water and other provisions along the U.S.-Mexico border to help save migrant lives. He is recognized as one of the 100 most influential Latinos in the U.S. by Hispanic Business Magazine. Morones was born in San Diego to Mexican parents and in 1998 was the first person to apply and be granted

WHO: OFFICE OF INTERNATIONAL EDUCATION

WHAT: 20TH INTERNATIONAL FESTIVAL FOCUSES ON CROSSING BORDERS, MAKING CONNECTIONS

WHEN: OCT. 7-9

WHERE: UNIVERSITY CENTER

ONLINE: WWW.CMU.EDU/INTERNATIONALFESTIVAL

dual nationality with Mexico.

The festival will feature the screening of the documentary “Crossing Borders” from 4:30 to 6:15 p.m., Thursday, Oct. 7 in the University Center’s Connan Room. The documentary follows four Moroccan and four American university students as they travel together through Morocco, and in the process of discovering “the other,” discover themselves. A panel discussion about issues raised in the film will follow the screening. A trailer of the award-winning documentary can be found at <http://crossingbordersfilm.org/>.

Additional activities include a Study Abroad Fair from 11 a.m. to 3 p.m. on Thursday, Oct. 7 in Rangos Ballroom. Students from every major will be able to meet with representatives from a variety of programs and universities offering educational opportunities abroad.

A complete schedule for the 2010 International Festival will be available online at www.cmu.edu/internationalfestival, and brochures will be distributed to students, faculty and staff prior to the event.

Cohen Discusses Impact of Oil Spill on Long-Term Health

■ Shilo Raube

With oil spewing in the Gulf of Mexico for three months earlier this year, there has been catastrophic damage to the Gulf region’s environment and economy. But, how will the disaster impact long-term personal health?

The Institute of Medicine (IOM) convened a workshop in New Orleans at the end of June to assess the spill’s human health effects. The country’s leading science experts were invited to examine a broad range of health issues. Sheldon Cohen, the Robert E. Doherty Professor of Psychology, discussed psychological stress and its implications.

“There isn’t a lot of evidence from previous oil spills in regard to long-term effects of health,” Cohen said. “I talked about what we know about stress and disease risk and how this knowledge may apply to the oil spill.”

According to Cohen’s research, there are certain types of stressful events linked to increased risk of disease: threats to self-esteem, loss of purpose and meaning of life, loss of feelings of control, perception of unfair treatment and damage to social networks.

“When you look at what is happening to the people in the Gulf region, all of these stressful events are present,” he said in remarks made during the June conference. “They’re losing jobs and family businesses. They don’t know how they’ll be able to support their families or protect the environment. They’re wary of BP’s pledge of financial reimbursement. They have to watch as family and friends go through similar — or worse — situations.”

Adults who deal with these stressors are more likely to suffer from depression, post-traumatic stress disorder and anxiety while children are prone to emotional and social conflicts. However, Cohen’s research has shown that these stressful events can also drastically affect physical health — even for healthy

area in danger of having stress from the disaster cause serious long-term health consequences?

“Not necessarily,” Cohen said.

“Most people can effectively cope with even traumatic events. Those most susceptible to stress-induced effects on health include individuals with low in-

need to be closely monitored for: feelings of stress and depression, sleep quality, diet, exercise, smoking, and alcohol and drug use. And, people with chronic illnesses need to be watched carefully to make sure that they are adequately taking care of themselves.

“Under stress, people typically don’t take care of themselves,” Cohen said. “For example, stressed people smoke and drink more, and fail to exercise and eat properly. We need to monitor and watch for individuals who engage in these behaviors over a long period of time. When you’re dealing with such a large community — the entire Gulf region — it’s a major challenge.

“Hurricane Katrina was only five years ago. In some ways, the oil spill is even a greater stressor because it’s ongoing, its effects may last for years, and has many components that remain unpredictable and uncontrollable.”



ONLINE: WATCH SHELDON COHEN’S PRESENTATION AT THE INSTITUTE OF MEDICINE’S WORKSHOP, “ASSESSING THE HUMAN HEALTH EFFECTS OF THE GULF OF MEXICO OIL SPILL,” AT WWW.PROLIBRARIES.COM/IOM/?SELECT=SESSION&SESSIONID=18.

people. Stress can lead to coronary heart disease, hypertension and upper-respiratory infections. People with chronic diseases like HIV/AIDS, rheumatoid arthritis and asthma can face increased deterioration or harsher symptoms.

So, is every person in the Gulf

come and low education, those without strong supportive networks, and those who have failed to cope with other stressful events.”

To manage the looming health threats, Cohen recommended to the IOM that persons suffering from stress

Plight of the Pelican

CARNEGIE MELLON ENGINEERING STUDENTS AND CHILDREN FROM THE CYERT EDUCATION CENTER ENLISTED THE HELP OF PITTSBURGH PENGUINS MASCOT ICEBURGH FOR AN EVENT IN LATE JUNE TO HELP ENDANGERED BROWN PELICANS IMPACTED BY THE BP OIL SPILL IN THE GULF OF MEXICO. STUDENTS PACKED 22 BOXES FULL OF DAWN DETERGENT, RUBBER GLOVES AND PAPER TOWELS TO SEND TO RELIEF WORKERS TO HELP IN THE CLEAN-UP EFFORT.



PHOTO BY KEN ANDREYO

CMU Has Always Been Home for Lackner

HEAD FOOTBALL COACH CELEBRATES HIS SILVER ANNIVERSARY

If there were a Carnegie Mellon Sports Hall of Fame, Richard Lackner would be a sure bet for induction. History is definitely on the side of this history major.

Now in his 25th year as head football coach at CMU, Lackner has helped build one of the most successful football programs on the NCAA Division III level. His 166 wins at the start of the 2010 season stands as the most of any football coach in CMU history and ranks him sixth among active NCAA Division III coaches (166-74-2). He's led the Tartans to nine University Athletic Association (UAA) championships and two trips to the NCAA playoffs.

But his ties to CMU date back beyond his quarter century as head coach. He was a standout linebacker for the Tartans from 1975 to 1978 and an assistant coach from 1979 to 1985. From the first time he stepped onto CMU's campus as a freshman, Lackner has never been part of a losing season. His 33 straight years of .500 or better football includes 14 conference titles, six NCAA playoff appearances and two Eastern College Athletic Conference Bowl Championships. His overall record as a player, assistant coach and head coach is an impressive 248-92-4 for a winning clip of nearly 73 percent.

Carnegie Mellon and Pittsburgh have always been home for Lackner.

"I think a person is always inclined to stay at a place where the situation is a

good one," said Lackner, who graduated from nearby Mt. Lebanon High School before matriculating to CMU. "That's been the case with Carnegie Mellon and myself. This is an outstanding academic institution so I knew I'd get a good education. We also have a great football tradition here. The program is able to attract quality kids who are bright and enthusiastic and fantastic to coach."

Following his 1979 graduation with a bachelor's degree in history, Lackner remained with head coach Chuck Klausing as an assistant coach. Seven years later, Lackner took the helm when Klausing left for the University of Pittsburgh.

Lackner has given back to the university in many ways off the gridiron as well and encourages all alumni to do so. In fact, Lackner has supported CMU financially for more than 25 years and was recently inducted into the Order of the May, which recognizes individuals who have demonstrated an extraordinary degree of loyalty by giving to Carnegie Mellon year after year.

"A great way to give back to Carnegie Mellon is by making a contribution to a club or organization that had special meaning to you while you were a student at Carnegie Mellon," Lackner said. "Many of my teammates and former players have chosen to donate to the football program. Funds that are directed to specific programs or organizations help to

promote and continue the great opportunities we experienced as undergrads here," he said.

In May 2003, Lackner was inducted into the Western Pennsylvania Hall of Fame and he is a past recipient of the Catholic Youth Organization's Bob Prince Award. In 2006, he led the Tartans to an 11-1 record for their most wins in a single season and was named UAA Coach of the Year for a fifth time. He also was named All-South Region Coach of the Year by D3football.com following the 2006 campaign.

While he has received numerous individual honors and awards, Lackner knows football is a team game and he is quick to point out the contributions of his top two longtime assistants, defensive coordinator Terry Bodnar and offensive coordinator

Rich Erdelyi, who have been with the program since 1986.

Lackner's "team" also includes his wife, Cindy, and their two children, Nick, who received his bachelor's degree from John Carroll University and his master's degree from Columbia University, and Kimberly, who received a bachelor's degree in 2005 from Carnegie Mellon and a master's degree from Pitt.

As a member of the staff at the university, Lackner's gifts are included in the Faculty and Staff Annual Fund. To learn more about the annual fund drive, contact Carole Panno at cp1g@andrew.cmu.edu or visit www.cmu.edu/campaign/involved/faculty.html. Payroll deduction forms are available at <https://www.cmu.edu/campaign/ways/payrollform.pdf>.

Carnegie Mellon's 2010 Football Schedule

Sept. 4	at Grove City College	1 p.m.
Sept. 11	at Allegheny College	1 p.m.
SEPT. 18	HOBART COLLEGE	NOON
SEPT. 25	KENYON COLLEGE	NOON
OCT. 2	HIRAM COLLEGE	1 P.M.
Oct. 9	at Ohio Wesleyan University	1 p.m.
OCT. 23	WITTENBERG UNIVERSITY	1 P.M.
Oct. 30	at Washington University in St. Louis	Noon (CT)
NOV. 6	UNIVERSITY OF CHICAGO	1 P.M.
Nov. 13	at Case Western Reserve University	2 p.m.

HOME GAMES IN ALL CAPS

NEWS BRIEFS

CMU To House Smart Grid Research Center

Carnegie Mellon will host a new Smart Grid Research Center as part of a \$5 million partnership with the Semiconductor Research Corporation (SRC), the world's leading university-industry research consortium for semiconductors and related technologies. The new partnership, called the Energy Research Initiative (ERI), will team energy-related companies with university researchers to address the world's need for smart alternative energy sources and equip students with the technical skills required for the new burgeoning industry.

The Smart Grid Research Center will support the incorporation of renewable energy resources and provide modeling, simulation and control tools needed to manage, optimize and secure the power grid, said Ed Schlesinger, head of the Electrical and Computer Engineering (ECE) Department. Marija Ilic, a professor of ECE and engineering and public policy at CMU and director of the university's Electric Energy Systems Group, will be the director of the Smart Grid Research Center.

IBM, CMU To Collaborate on Infrastructure Lab

IBM and Carnegie Mellon have announced that they will create a collaborative research lab at the university to undertake research and create technologies to help cities, governments and industries worldwide develop smarter infrastructures.

The IBM Smarter Infrastructure Lab will

develop technologies that are consistent with IBM's Smarter Planet initiative, IBM's offerings in business analytics and optimization, and CMU's work within its Center for Sensing Critical Infrastructure Research.

The new lab is part of the Pennsylvania Smart Infrastructure Incubator (PSII) and will be located within the Department of Civil and Environmental Engineering (CEE). The PSII is a Commonwealth of Pennsylvania economic development initiative to create an incubator for advanced infrastructure technology in partnership with industry and the state. The lab is planned to be operational this fall.

James H. Garrett, Jr., the Thomas Lord Professor and CEE chair, said CMU has been working for a number of years on interdisciplinary research to help better manage critical infrastructure using advanced technologies. He said the goal has been to deploy a variety of sensors so people who build, maintain or manage infrastructure can do so in a more efficient and cost effective manner.

Initiative Uses Robots To Boost Science, Technology

A new four-year, \$7 million educational initiative by Carnegie Mellon will leverage students' innate interest in robots to increase U.S. enrollments in computer science and steer more young people into scientific and technological careers.

The initiative, called Fostering Innovation through Robotics Exploration (FIRE), is sponsored by the Defense Advanced Research Projects Agency (DARPA) and designed to reverse a significant national decline in the number of college students majoring in computer science,

science, technology, engineering and mathematics (CS-STEM).

FIRE, which will be led by Robotics Academy Director Robin Shoop, will develop new tools that enable middle and high school students to expand upon their interest in robots, leading them from one CS-STEM activity to the next. Examples are programming tools that create game-like virtual worlds where robot programs can be tested, as well as computerized tutors that teach mathematics and computer science in the context of robotics.

Tepper Dean Search Committee Established

In an email to the Tepper School of Business community on Tuesday, Aug. 24, Executive Vice President and Provost Mark Kamlet announced that a search committee has been established to seek a successor for Dean Kenneth B. Dunn, who will be stepping down Dec. 31. Chester S. Spatt, the Pamela R. and Kenneth B. Dunn Professor of Finance and director of the Center for Financial Markets, will chair the 11-member committee. Joining Spatt will be professors Rosalind Chow, Gerard Cornuejols, Milton Cofield, Dennis Epple, George-Levi Gayle, Lester Lave, Pierre Liang, Duane Seppi, Kannan Srinivasan and Sridhar Tayur. Any feedback for the committee or suggestions of candidates can be sent to the committee via email to search@andrew.cmu.edu.

Qatar Phone Numbers Add Extra Digit

An additional digit has been added to some phone numbers in Qatar in order to accommodate the growth in population and technol-

ogy. For phone numbers at Carnegie Mellon Qatar, the first digit of the phone number after the country code (+974), which is the number 4, will be repeated. For example, the phone number for the main switchboard at Carnegie Mellon Qatar is now +974 4454-8400.

Phone numbers, including cell phone numbers, starting with the digits 3, 4, 5, 6 and 7 will have the first digit repeated as well following the +974 country code. Therefore, a +974-345-6789 cell phone number is now +974-3345-6789. Emergency phone numbers within Qatar, including 999 and 112, will not be affected by the change.

To reach the university, callers within Qatar will need to dial eight digits (4454-8400) while international callers will dial the eight digits preceded by the +974 country code.

There is no change for dialing within the Carnegie Mellon Qatar campus and between the campus and Qatar Foundation. Callers need only dial the last five digits of the phone number in either case.

Researchers Help Develop Oakland Way-finding System

The Remaking Cities Institute (RCI) in the School of Architecture and the Entertainment Technology Center (ETC) have joined forces with the Oakland Task Force, the Oakland Business Improvement District (OBID), Carlow University, UPMC and the University of Pittsburgh to design and develop a new way-finding system for the Oakland area. The new initiative, called "Innovation Oakland," includes analog and digital signage, interactive kiosks with touch screens, wireless data delivery to smart phones and laptop computers, and real-time

leaks have been a chronic occurrence for the past several years.

“For years we’ve been making repairs, and so now we’re going ahead and fixing the problem,” said Janice Held, project manager for Campus Design and Facility Development (CDFD). “The roof is 30 years old. It’s 10 years past its lifespan.”

With an anticipated November completion date, the Warner Hall Plaza Project now under way is replacing the entire roof under the concrete plaza with one of the best waterproof roofing systems available, Held said. She said the new Modified Bitumen roofing system is the same one that was used for the Wean Hall plaza and the green roof at Doherty Hall. But this one will be even stronger, as a second layer is being added to extend the roof’s life from 20 years to 30 years.

While the roof is being replaced with a green roofing system, CDFD is taking the opportunity to make the plaza “greener,” more sustainable and energy efficient. It’s replacing much of the concrete with trees, plants, river rock and steppingstones to make the area nearly three times as permeable (from 18 percent to 54 percent) as before.

“It’s a roof designed for trees, plants, vegetation and drainage. It’s designed to have water on it and to move water in the direction where it’s supposed to go. We’re also trying to naturally filtrate the rainwater runoff



A RENDERING SHOWS WHAT THE WARNER HALL PLAZA WILL LOOK LIKE AFTER REPAIRS AND LANDSCAPING ARE COMPLETED.

into the permeable areas to reduce the impact on the city’s aging stormwater sewer system,” Held said.

The new green roof is designed with energy efficiency and sustainability

heat from getting inside the A level. The new roof also will reduce maintenance costs because it will make the roof area under the plaza more accessible and thus easier to maintain.



ONLINE:

FOR MORE ON THE PROJECT VISIT WWW.CMU.EDU/CDFD

in mind. With less concrete and more green vegetation and dirt on the plaza, less sun and heat will be reflected into the building, and cooling costs will be reduced in the summer months. Dirt is a good insulator and will prevent cold and

“We’re not covering everything with concrete like they did before,” Held said. “It’s not a good system, because concrete cracks, and once it cracks water can infiltrate through all the concrete. Concrete is not a waterproofing material.

This new roof will be very sustainable in every way,” she said.

The vegetation in the transformed plaza will include native species, such as birch trees, winter berry holly, hyssop, butterfly weeds, kern flowers, coral bells, lavender, ferns, sedums and lilies of the valley. The plants will be placed strategically around Warner Hall. Plants needing a lot of water will be placed in spots where most of the water will run, and plants not needing much water will be placed in dryer areas, where there will be little or no irrigation.

The plaza will be highlighted with wooden benches, 16x16 inch LED accent lighting embedded in the ground around the front of Warner Hall and river rock around the perimeter of the building. Green and natural elements will reduce the amount of concrete space, and the remaining concrete will be accented with linear score lines and brushed patterns to give it some style, Held said.

“There’s nothing very fancy going on,” Held said in summing up the project. “It’s very simple. There’s nothing exotic. It’s a simple, smart, cost-effective, sustainable and energy-efficient project.”

And one that will keep Krieg and Enrollment Services dry for quite a while.

“The project team has been very good to us. They’ve been very, very nice,” Krieg said.

transit and parking information. The prototype kiosk, designed and fabricated at the ETC, is at the UPMC Presbyterian Hospital lobby. The kiosk allows users to access details, maps and even printed walking directions in the Oakland business district.

PSC Awarded \$2.8 Million

The National Science Foundation (NSF) has awarded \$2.8 million to the Pittsburgh Supercomputing Center toward the purchase of a system that features SGI’s newest scalable, shared-memory computing system and associated disks. The SGI® Altix® UV system opens a new computational capability for U.S. scientists and engineers. Its 4,096 cores in 512 eight-core Intel Xeon (Nehalem) processors, 32 terabytes of memory and two connected 16-terabyte coherent shared-memory systems make it the largest coherent shared-memory systems in the world.

Dining Plans Now Offered for Faculty and Staff

Housing and Dining Services is now offering a DineXtra Program and Community Dining Plans for faculty and staff. After opening a DineXtra account with an initial deposit, your DineXtra card acts as a debit card subtracting the amount of your food purchase from your balance each time you use it. You will receive a 1 percent bonus for every \$100 dollars you deposit into your account. The maximum bonus is 10 percent. You can add money into your account at any time during the year. For more information on the Community Dining Plans visit www.cmu.edu/dining.

Career Center Seeks ProNet Volunteers

The Career and Professional Development Center invites all faculty and staff to become a volunteer in the university’s Professional Network (ProNet), an online recruiting system for students and alumni. ProNet enables students and alumni to explore industries and career fields, while building professional contacts. Volunteers in ProNet will be able to create a professional profile that outlines areas of experience, select various career topics they are willing to discuss with students, and help students gain knowledge and develop networking skills. To join ProNet, visit <https://cmu-csm.symplicity.com/mentors/>. Contact Rebecca Florey at 412-268-1317 or rs7t@andrew.cmu.edu for information or visit www.cmu.edu/career/tantrak/pronet/index.html.

Astronomers Develop Tool For Mapping the Cosmos

Pioneering observations made by researchers from Carnegie Mellon, the Academia Sinica in Taiwan and the University of Toronto with the National Science Foundation’s giant Robert C. Byrd Green Bank Telescope (GBT) have validated a new tool for mapping large cosmic structures, which will provide valuable clues about the nature of the mysterious “dark energy” and why the universe is expanding at an accelerated rate. The findings were published in the July 22 issue of Nature.

Sound waves in the extremely early universe are thought to have left detectable imprints on the large-scale distribution of galaxies in the universe. The researchers developed a way to measure such imprints by observing the radio

emission of hydrogen gas. Their technique, called intensity mapping, when applied to greater areas of the universe, could reveal how such large-scale structure has changed, giving insight into which theory of dark energy is the most accurate.

Robot Inspects Offshore Oil and Gas in Kazakhstan

Carnegie Mellon’s National Robotics Engineering Center (NREC) and Shell Development Kashagan B.V., (SDK) have developed a human-sized, wheeled robot to inspect offshore oil and gas production facilities in the giant field of the Caspian Sea in Kazakhstan.

The “SensaBot” will be used by the North Caspian Operating Company (NCO) in the Kashagan field, a high-pressure oil and gas reservoir with a high concentration of hydrogen sulfide gas. The field is in an environmentally sensitive area with wide-ranging climactic conditions. The robot, equipped with audio, visual, temperature and gas detection sensors, is being remotely controlled using a wireless network. SensaBot will perform a variety of tasks and thus reduce human exposure to adverse weather and potentially hazardous working conditions.

U.S. Government Extends SEI Contract

The Software Engineering Institute (SEI), established at Carnegie Mellon in 1984, has received a five-year, \$584 million contract extension from the U.S. government through June 2015. The SEI’s contract ensures that the institute will continue to pursue its mission of advancing the practice of software engineering and improving

the quality of systems that depend on software.

The Department of Defense (DoD) sponsoring agreement for the SEI states that “the mission of the SEI is to provide technical leadership and innovation through research and development to advance the practice of software engineering and technology in support of DoD needs.”

Siegler Receives \$10M for Math Research Center

The Institute of Education Sciences, a research branch of the U.S. Department of Education, has awarded a \$10 million grant to Robert Siegler, the Teresa Heinz Professor of Cognitive Psychology. The grant will fund a five-year research and development center aimed at understanding difficulties middle school students have in math, specifically with fractions. Siegler, along with colleagues from the University of Delaware and Vanderbilt University, will run the Center on Improving Mathematics Instruction for Students with Mathematics Difficulties, which will be housed at the University of Delaware.

R&D Magazine Honors Hollis Invention

A magnetic levitation haptic interface invented by Ralph Hollis, a professor in the Robotics Institute, is the recipient of a 2010 R&D 100 Award, presented by R&D Magazine to recognize the 100 most technologically significant products of the past year. The maglev haptic interface, under development in Hollis’ lab since 1997, enables computer users to manipulate or interact with virtual or remote environments using their sense of touch. Hollis and other winners, listed on the R&D Awards website, www.rdmag.com, will be recognized at an awards banquet Nov. 11 in Orlando.

On Stage

The School of Drama is preparing for an exciting 2010-2011 season, featuring Leonid Andreyev's "He Who Gets Slapped"; "Vanishing Point," a new musical by Rob Hartmann and Liv Cummins; a new adaptation of Garcia Lorca's "Barbarous Nights"; William Finn's musical "The 25th Annual Putnam County Spelling Bee"; "Lulu," a 1895 banned German play by Frank Wedekind; and "The Alice Project," which will be developed through a yearlong interdisciplinary collaboration.

"I am delighted that the plays chosen for the season offer a fascinating range of writing styles and theatrical forms that in turn reflect the myriad talents of our faculty, staff, visiting directors and the student body," said Peter Cooke, head of the School of Drama. "If drama is the prism through which we view our world, then what a wonderful world we have to share with the public in 2010-11."

Subscription packages and tickets to the School of Drama season can be purchased by calling the box office at 412-268-2407.

Listen to the Music

The School of Music season boasts two fall and spring operas and a full season of Carnegie Mellon Philharmonic concerts, in addition to student and faculty



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recitals. At 3 p.m., Saturday, Oct. 9 in the Kresge Theatre, the School of Music will celebrate the life and musical contributions of Earl Wild (BFA '37), an internationally acclaimed virtuoso pianist and educator. The event will include performances by CMU piano faculty, students and alumni.

The School of Music will launch Piano Month with a fantastic two-day extravaganza showcasing masterworks by Frederic Chopin. "200 Hands, 100 Pieces: Celebrating Chopin's Bicentennial, Music by Frederic Chopin and his Contemporaries" will be held from noon to 10 p.m., Saturday, Oct. 30 and Sunday, Oct. 31 in the Kresge Theatre and Alumni Concert Hall. Free and open to the public, the performances will feature faculty members, piano performance majors and Music Preparatory School (K-12) students.

In what has become a Pittsburgh tradition, the School of Music combines the forces of the Carnegie Mellon Philharmonic, Concert Choir and Repertory Chorus to present Carnegie Mellon's Holiday Concert at noon, Dec. 3 in Rangos Ballroom in the University Center.

The Carnegie Mellon Philharmonic, Carnegie Mellon's flagship performing ensemble, will take on Mahler's Symphony No. 6 in A minor under the direction of Maestro Ronald Zollman in its



MILLER GALLERY ATTENDANT LARA MANN (A '11) SITS IN THE "STEELERS ROOM," WHICH IS PART OF THE EXHIBIT "WHAT-EVER IT TAKES: STEELERS FAN COLLECTIONS, RITUALS, AND OBSESSIONS," CURATED BY JON RUBIN AND ASTRIA SUPARAK.

PHOTO BY KEN ANDREYO

opening concerts. The program, which will be presented twice, will be performed at 8 p.m. Sept. 15 in Oakland's Carnegie Music Hall and again at 8 p.m. Sept. 16 at Upper St. Clair High School.

Tickets to the School of Music's concerts can be purchased at the box office the day of the event or online at www.music.cmu.edu. Tickets are often free for students and between \$8 and \$12 for adults.

Visual Concepts Abound

The schools of Art, Architecture and Design all host extensive lecture series featuring experts and leaders in their fields.

The School of Architecture will host the annual Jill Watson Festival Across the Arts, commonly known as Wats:on? The event honors the late Jill Watson's commitment to an interdisciplinary philosophy as an artist and celebrates her accomplishments and reputation as an architect. Watson was a Carnegie Mellon alumna, adjunct faculty member and acclaimed Pittsburgh architect who died in the TWA Flight 800 plane crash on July 17, 1996.

The School of Art presents student exhibitions in the Frame Gallery, and the BFA and MFA final exhibitions in the Miller Gallery. Seniors will open their studios in December for an art sale and other public performances and exhibitions throughout the year. The Waffle Shop, the site of a late-night reality talk show that also serves waffles, is an off-campus classroom for School of Art students and faculty in East Liberty that is always buzzing with activity.

Each year School of Design students and faculty present work in the annual AIGA exhibition, the professional association for design's annual juried showcase of work titled "Context."

And each year faculty are well represented in the Industrial Design Society of America's "Merit Awards" presentation. The BXA interdisciplinary program hosts its annual "Kaleidoscope" student exhibition of artwork and performance at 7 p.m., Friday, Feb. 12 at the Frame Gallery.

The Center for the Arts in Society (CAS), a joint center between CFA and the College of the Humanities & Social Sciences, co-sponsors activities and presents events periodically throughout the academic year. This year CAS is supporting a Latino youth project to paint a public mural on the Latino Community Center at 2215 Murray Ave. in Squirrel Hill. The project will be unveiled Thursday, Sept. 16, Mexico's national independence holiday. The group,

Jovenes Sin Nombres (Youths Without Names), will reveal "Pintando para un sueño" or "Painting For a Dream," to draw attention to the emergent Latino community in Pittsburgh.

Future Tenant, a multidisciplinary creative space in Pittsburgh's Cultural District, managed by Masters of Arts Management students, stages a full year of performances, exhibitions and installation art in its storefront window. "Eat Me," a group exhibition exploring food, art and temptation curated by Jill Larson, will open Friday, Sept. 17 with a reception from 6 to 9 p.m. The exhibition will run through Oct. 9. In conjunction with Pittsburgh Fashion Week, Future Tenant will put on the "Eat Me Fashion Show: An amazing feast of food art to wear" at 10 p.m., Thursday, Sept. 30.

Nash Lecture Focused on Prices

■ Jocelyn Duffy

Noted mathematician Walter Schachermayer delivered this year's Nash Lecture, titled "The Duality of Money" on Tuesday, Sept. 7 in the Rashid Auditorium.

According to Schachermayer, the dual relationship between goods and their prices is a classical idea in economics. In his lecture, he discussed current research on duality in modern and complex financial markets.

Schachermayer, a professor of mathematics at the University of Vienna, is best known for combining functional analysis and stochastic analysis in the field of financial mathematics. He and fellow mathematician Freddy Delbaen proved the Fundamental Theorem of Asset Pricing in its general form. This theorem, first conjectured by economists in the 1970s, explains the relationship between the absence of arbitrage in financial markets and the existence of a probability measure that can be used to price derivative securities. Later, Schachermayer and Carnegie Mellon Professor Dmitry Kramkov established the definitive methodology for using duality to solve the problem of optimal investment in incomplete markets.



PHOTO COURTESY OF WALTER SCHACHERMAYER