



Emeritus professor Nathan Hershey has ignited a debate over the right to die. See pages 8 and 9.

UNIVERSITY TIMES

THE FACULTY & STAFF NEWSPAPER SINCE 1968

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A Senate committee aims to make staff and faculty more aware of mental health resources.....3



Pitt poet wins MacArthur award

“It’s like the five stages of grief, except it’s joy,” says English faculty member Terrance Hayes of being named a MacArthur Fellowship recipient then being forced to remain silent about it.

Beyond telling his wife, fellow faculty member Yona Harvey, who was with him when he received the MacArthur Foundation’s call earlier this month, he was sworn to secrecy until the news was released publicly two weeks later — by which time he’d progressed from the initial denial and disbelief stage to acceptance.

Hayes said he’d never imagined receiving the award — poets have been few among the 900-plus recipients over the course of the award’s 33-year history. “Never did I think that I would be on the list,” he says.

Hayes is among 21 recipients of the 2014 “genius grant” fellowships awarded by the John D. and Catherine T. MacArthur Foundation. The awards provide a \$625,000 stipend, paid quarterly over five years, and are designed to encourage talented individuals to “pursue their own creative, intellectual and professional inclinations,” according to the foundation.

MacArthur fellows are chosen by a selection committee of leaders in arts, sciences, humanities

and the for-profit and nonprofit communities, based on the recommendation of invited nominators from a broad range of fields. Applications and unsolicited nominations are not accepted.

Typically, 20-30 of the no-strings-attached fellowships are awarded each year to individuals selected for their “exceptional creativity, promise for important future advances based on a track record of significant accomplishment, and potential for the fellowship to facilitate subsequent creative work.”

Hayes, who is on teaching release this term to work on a long prose project, said he plans to return to the classroom in spring as scheduled. “Typically, people do take off. That’s not my first impulse,” he says, adding that he wants to continue in the environment that created the circumstances for the award: maintaining his relationships with other writers, support from the University, and the teaching that he says fuels his creativity and keeps his mind alert.

“I want things to be what they are,” he says.

Hayes said he’s been considering how his award might benefit nonprofits or poetry organizations with which he’s affiliated, among them Cave Canem, which holds an annual writing retreat



Terrance Hayes

For a look at Terrance Hayes’ poetry, see page 6.

on the Pitt-Greensburg campus.

Hayes earned a Master of Fine Arts in writing at Pitt in 1997. He joined the Pitt faculty in 2013 from Carnegie Mellon, where he had been a faculty member since 2001.

He has authored five collections of poetry. His latest, “How To Be Drawn,” is to be published

next year by Penguin Books. His collection “Lighthouse” won the 2010 National Book Award for Poetry; “Wind in a Box” (2006) won a Pushcart Prize; “Hip Logic” (2002) won the 2001 National Poetry Series, was a finalist for the Los Angeles Times Book Award, and was a runner-up for the James Laughlin Award from the Academy of American Poets, and “Muscular Music” (1999) won the Kate Tufts Discovery Award and the Whiting Writers Award.

Among other honors and awards, Hayes has received fellowships from the National Endowment for the Arts and the Guggenheim Foundation.

Hayes joins a handful of MacArthur fellows with University connections: Former faculty member Elodie Ghedin, at the time a parasitologist and virologist in the School of Medicine, and Pitt education alumnus Kevin Guskiewicz, a faculty member in the Department of Exercise and Sport Science at the University of North Carolina-Chapel Hill, were named 2011 MacArthur fellows. And Pitt arts and sciences alumnus and trustee William E. Strickland Jr., head of the Manchester Craftsmen’s Guild and the Bidwell Training Center, was a 1996 MacArthur fellow.

—Kimberly K. Barlow

IP form deadline delayed

At the urging of Faculty Assembly, Provost Patricia E. Beeson has suspended a requirement that faculty sign a blanket intellectual property (IP) rights assignment agreement in order to proceed with grant applications.

In a Sept. 12 memo to Faculty Assembly communicated via University Senate President Michael Spring, Beeson announced that she would delay the Sept. 16 deadline for signing the IP assignment agreement and instead convene a task force to make recommendations “for implementing a process consistent with our existing policy on Intellectual Property and in light of current expectations of funding agencies.”

The memo went on to state: “While this taskforce deliberates, the process of grant submission will go forward as in the past.”

Following spirited debate in its Sept. 10 meeting, a divided Faculty Assembly approved a tenure and academic freedom committee (TAFC) resolution that urged the provost to push back the Sept. 16 deadline for faculty and non-clerical staff to sign the agreement to assign to the University IP rights for all work done while employed at Pitt.

TAFC had questioned a lack of faculty input in developing the policy, as well as the administration’s assertion that the mandate reflected federal requirements as a condition for grant funding.

At issue was an IP rights assignment agreement, dated July 1, that some faculty felt represented no change to longstanding IP policy, but others argued was a shift from assigning IP rights as invention disclosures were made to a blanket transfer of rights to all IP created during an individual’s employment at the University.

The changes stem from a 2011 Supreme Court decision, *Stanford v. Roche*. (See Sept. 11 *University Times*.)

The Senate has posted relevant documents online at www.univsenate.pitt.edu/intellectual-property.

CONTINUED ON PAGE 7

Class of 2018: Who are they?

A total of 4,728 new undergraduates — 3,884 freshmen and 844 transfer students — have arrived on the Pittsburgh campus this fall.

In a Sept. 23 presentation to the University Senate admissions and student aid committee, Marc

L. Harding, chief enrollment officer, and Kellie Kane, director of operations and strategic planning in the Office of Admissions and Financial Aid, profiled Pitt’s newest undergraduates.

As has become the norm with each successive year, Pitt’s incom-

ing freshman class is drawn from a record number of applicants and boasts academic strength. “The class itself is just a really bright class,” said Harding.

Of the 2014 freshman class:

- 66 percent are Pennsylvania residents (16 percent from within

Allegheny County, 50 percent from elsewhere in Pennsylvania).

- 34 percent are from out of state.

Where do the out-of-state freshmen call home? Eighty-five percent come from among 10 states: New Jersey is No. 1, contributing 287 freshmen. Rounding out the top 10 are New York (230 freshmen), Ohio (130), Maryland (97), Illinois (85), Virginia (85), California (53), Massachusetts (52), Connecticut (25) and Michigan (24).

Another 8 percent hail from Florida, Delaware, Georgia, Texas, Washington, D.C., New Hampshire, Indiana, Maine, Tennessee and West Virginia.

- The average SAT score is 1297 (based on a maximum of 1600), up from 1293 for those entering in fall 2013.

- Fifty-nine percent were in the top 10 percent of their high school class.

CONTINUED ON PAGE 2

Business dean search group forming

A search committee is forming to identify a successor for John T. Delaney, dean of the Katz Graduate School of Business and College of Business Administration. Angela Coldren has been selected as a staff representative on the committee.

Delaney announced earlier this month that he plans to step down and intends to remain a member of Pitt’s business faculty once a successor has been found.

Delaney came to Pitt in 2006 from Michigan State University, where he was a professor of management and associate dean for MBA programs.



Dean John T. Delaney

Class of 2018: Who are they?

CONTINUED FROM PAGE 1

• About one-quarter identify as minority students, Harding said. For 2014, 24.8 percent identified as a minority, down slightly from 25.5 percent last year, up from 21.5 percent in 2012. “A lot of families look through the lens of how diverse is your undergraduate student body,” in selecting colleges, Harding said. “It’s a number of interest to our external constituents.”

• International student applications fell, due in part, Harding said, to transition related to the departure of a longtime staffer in that area.

For fall 2014, of 1,883 international freshman applicants, 554 students were admitted and 108 students matriculated. In comparison, for fall 2013, 589 students were admitted from 2,342 applications, with 121 students joining the freshman class.

The ranks of graduating high schoolers continue to decline in and around Pennsylvania. Despite the trend, the number of Pitt applications continues to rise.

“We’re a product that’s in demand by a segment of our population. We want to keep that strong, particularly in light of the demographics,” Harding said. “We’re competing with the

very best.”

Of 30,629 applicants for fall 2014 — the highest number ever — 16,271 students (56.1 percent) were accepted. The class of 3,884 students represents a yield (the percentage of admitted students who enroll) of 23.9 percent.

In comparison, in 2000, the yield was 35 percent, Harding said.

“We’ve become more selective,” Harding said. “You have to admit more students to bring in the same size class. ... The smarter the student, the more choices they have, the more scholarship dollars they have,” he said. “If we get more selective next year, I’d expect the yield to drop again.”

Although Pitt is among the nation’s most expensive public universities, cost has not yet prevented the University from achieving its enrollment goals, Harding said. “Cost plays a role, but if you’re a great product, people are willing to apply for it and be



The Class of 2018 at freshman convocation last month.

Mike Drazdzinski/CDD

interested in it, and we’re still getting students of high quality.”

The University plans to boost recruiting in areas where Pitt is finding increased visibility through its move to the Atlantic Coast Conference. Potential new

markets include North Carolina, Massachusetts and throughout New England, said Kane.

In addition to increased name recognition for Pitt in those areas, they’re close geographically — freshmen tend to attend school within a 500-mile radius of home

— and alumni presence can be leveraged, all advantages when it comes to attracting students.

Additional freshman class facts are at <https://oafa.pitt.edu/who-fits-at-pitt/class-profile/>.
—Kimberly K. Barlow

Technology Corner

Sean Sweeney
CSSD Security



Technology topics and trends from Computing Services and Systems Development (CSSD)

Meet the security team

Have you heard the joke about those of us who work in information security in higher education?

We sleep like a baby.

You know — we wake up every hour and cry.

Target-rich environment

In the world of cybersecurity, universities are considered a “target-rich environment.” Universities run on very large, complex and fast networks for diverse and fluid populations and are, by their very nature, repositories for information.

All of that makes an enterprise like Pitt very attractive to hackers and identity thieves.

Our mission

CSSD’s security team is committed to safeguarding the confidentiality and integrity of Pitt’s systems by providing security expertise in a proactive manner. We understand our responsibility as guardians of sensitive information, and we know the severity and frequency of attacks against that information.

In addition to maintaining strong security at the enterprise level, we work continuously to foster a culture of security awareness with individuals and departments in order to maintain security at the local level.

Effective security is a team effort. You are an integral part of that team.

Security tailored to your circumstances

The CSSD security team works directly with faculty, staff and departments to provide security services and information at no cost. The more secure your area

is, the more secure all other areas of the University will be.

• Consultation

— *Security plans.* We consult with units developing or updating security plans and initiatives. Each unit should have a general information security plan that follows University policy. But many units also have more specific security needs and develop plans to satisfy specific requirements.

Right now, for example, your department may be updating its customer information security plan as part of the University’s compliance efforts. Departments with significant engagement in financial activities need these security plans to protect customer information. We can help.

— *Evaluation of new tools.* Faculty members and departments often identify potentially valuable new technology tools or systems. CSSD Security can be effective initial evaluators of those systems to help determine whether the design of the system and its vendor meet security standards so that you don’t invest time and funding in a product that cannot pass a security review.

— *Assessment.* In addition to providing expertise during the development stage of a security plan for your area, we can be a verification resource to test your plan after controls are in place.

• Vulnerability scans

Mandatory vulnerability scans are part of standard operating procedure for many applications and systems. But in cases where a system does not have a built-in vulnerability scan, we can provide that service.

We will run the vulnerability scan for you, weed out any false

positives and alert you to vulnerabilities. The scans can be done on a periodic basis; you will receive a report each time.

The vulnerability scan service allows departments to leverage CSSD security tools and expertise to proactively address any known vulnerabilities.

• Centralized antivirus

Symantec Endpoint Protection (SEP) is available at no cost to all University faculty, staff and students through the Software Download Service.

Many departments and schools, however, also maintain a SEP server to more effectively manage machines in their area and identify when there’s a need for active remediation.

We can do that for you on one of our servers. The department can choose to manage its clients or, if you prefer, we can do that for you, too, sending a report — or, when necessary, an alert — to a designated person in the unit so that the department is kept fully informed.

• Sensitive data discovery

A surprising number of people assume they have no personal information on their computer. Don’t assume. Identity Finder software scans your computer to locate sensitive information such as birth dates, passwords or Social Security numbers. Identity Finder can be downloaded through the Secure Your Data resource community in My Pitt.

The CSSD security team can help you understand how University information policies apply to your work and your situation. If you have sensitive data that needs to remain on your computer, we will help you address that with

applicable security controls.

• Incident response

Despite the best efforts of a department IT team and individuals within the department, machines and systems can become compromised or infected.

Please call us.

If you try to fix this on your own and we don’t know about it, then we are not aware of information we need to assess greater risk. The infection that you assume is localized may be part of a larger issue or it may provide important evidence in a larger puzzle. Let us help.

• Security awareness training

We always welcome the opportunity to visit your school or research group for a tailored information session on security awareness.

The federal Department of Homeland Security designates October as National Cybersecurity Awareness Month. Consider celebrating it this year by inviting us to give a security awareness training session.

Please mark your calendar for a special presentation at noon on Oct. 21 on cybersecurity.

The event, which will be held in the William Pitt Union, will include talks by U.S. Attorney General David Hickton, who led the investigation against the individual emailing bomb threats against the University, and hacking expert David Kennedy.

Sean Sweeney is the University’s information security officer. He can be reached at 412/624-5595 or sweeney2@pitt.edu.

University Times letters policy

Letters should be submitted at least one week prior to publication. Persons criticized in a letter will receive a copy of the letter so that they may prepare a response. If no response is received, the letter will be published alone.

Letters can be sent by email to njbrown@pitt.edu or by campus mail to 308 Bellefield Hall.

The University Times reserves the right to edit letters for clarity or length. Individuals are limited to two published letters per academic term. Unsigned letters will not be accepted for publication.

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Publicizing mental health resources is priority for benefits & welfare group

Compiling and publicizing Pitt mental health resources for staff and faculty continued to be a top issue for the University Senate benefits and welfare committee at its first meeting of the year on Sept. 18.

Linda Tashbook distributed a preliminary list, for member review, of mental health resources for Pitt employees, both inside and outside the University.

Noted Tashbook: "People may not be aware of the scope of knowledge that exists here, and the scope of opportunities" for services on campus.

The list included Western Psychiatric Institute and Clinic's online portal to community resources; the Civil Practice Law Clinic at the School of Law, which offers free legal aid to low-income individuals with disability claims and other issues; the Center for Patients with Special Needs at the School of Dental Medicine; opportunities for adolescents to participate in research at

the Affective Neuroscience and Developmental Psychology laboratory, and other University resources.

From library books to Human Resources department websites, more information is available to Pitt employees on this topic than they may realize, Tashbook added. Community services such as family-to-family training classes held by the local chapter of the National Alliance on Mental Illness may not be well known by Pitt employees either.

Irene Kane, a committee member from the School of Nursing, noted that she and her fellow faculty may be available to offer their expertise as well.

"In terms of chronic conditions, depression is near the top," noted John Kozar, assistant vice chancellor for Human Resources and chancellor's liaison to the committee. "It's a very serious situation."

Another chancellor's liaison, associate vice chancellor for

Administrators here unclear on UPMC/Highmark decree

Faculty and staff have felt the impact "very much" from the Highmark/UPMC fight and the resultant June 27, 2014, consent decree, John Kozar, assistant vice chancellor for Human Resources, told the Senate benefits and welfare committee Sept. 18. The decree will allow Highmark health insurance holders in-network access to certain UPMC facilities. Kozar said Pitt officials had met with both sides in an attempt to understand how the new rules affect Pitt employees with Highmark insurance.

"You give it to 10 people, you're going to get 10 different interpretations," he said.

"We're struggling with that. Quite frankly it's going to be an issue for the next few years." It is clear that emergency room visits to any facility will be covered for employees with Highmark insurance, "but what happens from there is still under debate." Students whose parents have Blue Cross insurance — from Highmark or elsewhere in the state or country — "could be impacted" as well. "We're working through those issues. It's a little frustrating for everybody."

—Marty Levine

Human Resources Ron Frisch, said his department also is looking to add faculty and staff development workshops that create awareness of the issue, in either spring or fall 2015.

Committee chair Angelina Riccelli asked Tashbook and Kane to work with Kozar and Frisch on compiling these resources for prevention and treatment of mental illness for distribution to the University community.

The benefits and welfare committee mapped out its major subjects for discussion for the year, including mental health and

other special needs on campus as their topic for February. Other monthly topics will be: October, benefits funding; November, retirement savings and the defined contribution plan; January, the faculty and staff discount program, and March, the Affordable Care Act. April's topic is still open for discussion; there is no committee meeting in December.

Kozar introduced benefits and welfare staff members to the committee and reported on recent changes in his department. March will be an appropriate time to focus on the Affordable Care Act,

or Obamacare, he said, since Pitt and many other employers face a March deadline to report on which employees qualify for medical coverage as of July 1, 2015, followed by monthly updates thereafter. "Everybody out there is trying to do their interpretations" of the law, he said. "It's a struggle."

HR also will be updating its policy on staff tuition discounts. "We're not looking to reduce the benefit; we're looking to reduce the amount of interpretation for the policy," he said. Along with the update will come a new summary guide for employee use.

Changes are coming to the health-incentive account for those with UPMC's PPO insurance, he announced. Rolled out two years ago, the account encourages faculty and staff to undertake periodic health risk assessments, such as blood draws, by offering credits that reduce the employee's deductible. Kozar expects the incentive credits eventually will go instead into a flexible spending account.

"It's a better way, it's more understandable, and I think it will make the program more popular," he said.

In conjunction with the annual retiree benefit fair, set for the first week in November this year, Human Resources is considering creating a retiree association, he said, as both a social organization and a way for Pitt to stay connected with retirees.

Said committee member Harvey Wolfe, retired engineering faculty: "One of the difficulties is, the longer you've been retired, the less connections you have with the University. Things change in the Benefits office..."

Added Riccelli: "It will also send a message: The University still cares about you."

—Marty Levine

Crowdfunding of Oakland digital art gallery nears end

Just a few days remain in a crowdfunding effort to support construction of the Innovation Oakland (IO) outdoor digital art gallery at Forbes-Bouquet Plaza.

Organizers hope to raise \$50,000 for installation costs by the end of the Indiegogo campaign that closes at midnight on Sept. 29. The effort includes opportunities to donate at levels ranging from \$25 to \$25,000. Perks for contributors include postcards, shirts and recognition on walkway pavers, benches and art elements.

Pitt, which owns the plaza space at the corner of Bouquet Street and Forbes Avenue, is among the partners in the \$650,000 smart infrastructure demonstration project, which is billed as the first space of its kind in the United States. (See Oct. 25, 2012, *University Times*.)

In addition to supplying construction management, the University is allowing the use of the plaza space, initially for two years, with the opportunity for renewal, said Georgia Petropoulos, executive director of the Oakland Business Improvement District (OBID), which is leading the IO digital infrastructure project planning.

Other partners in Innovation Oakland and the outdoor digital gallery include Carlow University, Carnegie Mellon University, City

of Pittsburgh, CMU Traffic 21, Community Human Services, Northside Cultural Collaborative, Oakland Task Force, Oakland Transportation Management Association, Pittsburgh Downtown Partnership, Pittsburgh Symphony Orchestra, Revv Oakland, UPMC and the Southwestern Pennsylvania Commission.

The gallery's digital screens will display work by local, national and international artists, as well as messages and real-time information for the public, with the capacity to live-stream events, said Petropoulos. Other plaza amenities will include Wi-Fi Internet service; "smart" light poles that have sound capability; new pavers, benches and a rain garden.

Murray Horne, curator of the Wood Street Gallery in Downtown Pittsburgh, will manage the digital gallery and curate the plaza's audio and video.

Ground won't be broken until all the funds are committed, but work could begin before winter, Petropoulos said.

The six-week Indiegogo campaign is part of a multifaceted fundraising effort and a first for the group, she said.

Details on the online campaign are at www.igg.me/at/io-digital-gallery. Donors who would prefer to contribute by check can contact Petropoulos at georgia@oaklandbid.org.

—Kimberly K. Barlow

Unused medication collection set

Unused, unwanted and expired medications can be turned in for safe disposal 10 a.m.-2 p.m. Friday, Sept. 26, at several UPMC locations, including:

- Children's Hospital, outpatient pharmacy lobby.
- Falk Pharmacy, Falk Medical Building, 2nd floor lobby.
- Hillman Cancer Center, ground floor atrium.
- Magee-Womens Hospital, main lobby.
- UPMC Presbyterian, 1st floor prescription shop.

Prescription and over-the-counter medications will be accepted. They should be in their original containers and personal information on prescription labels should be concealed.

FACULTY & STAFF CAMPAIGN

Why they give

Through the Faculty and Staff Campaign, University faculty and staff can help Pitt thrive by contributing to any of more than 2,000 scholarship, fellowship and professorship funds. Payroll deductions are available, and donors of \$1,000 or more are recognized through the Chancellor's Circle program.

Annually, nearly 3,000 Pitt employees take part in the campaign, from every part of the University. Their backgrounds, and reasons for giving, are as diverse as the Pitt community.

Today, the *University Times* begins a periodic feature profiling Faculty and Staff Campaign donors.

For Rosie Rinella, a 46-year employee of the School of Social Work, giving to the Faculty and Staff Campaign "is just my way of saying thank you for all that has been afforded to me, in the University and in the school."

Rinella is assistant to the dean and manager of personnel and administrative services, overseeing the office staff, handling personnel matters and managing the office. She also is assistant editor of *Bridges*, the school's biannual magazine, and coordinates the school's speaker series.

"I really have enjoyed my job. I feel as if I've been very blessed [with] the opportunity," says Rinella. In particular, she enjoys contributing to scholarship endowment funds set up by emeritus faculty, "just out of respect for those individuals," she says. "I have a great deal of admiration for those people."

"A lot of these funds are scholarship funds for our students that we award every year," she adds. "That makes a world of difference for our students to be able

to matriculate. They're the next generation of human services professionals."

Her most recent contribution was toward funding a new endowment from alumnus James McDonald, whom she has known for 35 years. "I look forward to seeing the funds go to a student," she says.

"The students who earn the scholarships are usually the best and the brightest students, and they have done remarkable things as they go out into the community to work for certain agencies.

"Social work is a helping profession," she says, "and there are a lot of people suffering in this society. If we can help our students along in their degrees..."

"If everyone would give a small donation to the internal campaign," Rinella concludes, "what a difference it would make to our students."

For more information on the Faculty and Staff Campaign, go to www.giveto.pitt.edu/fsgiving.

—Marty Levine



SAC wants improvements in lactation website

The Staff Association Council (SAC) wants the University to be more welcoming and helpful to women using the Pittsburgh campus's 16 lactation rooms.

Pamela Rikstad, who reported on the work of the health, safety, IT and transportation committee at SAC's Sept. 17 meeting, said Human Resources' lactation website (www.hr.pitt.edu/diversity/lactation) makes no attempt to associate use of the rooms with healthy practices, unlike other University HR sites. She gave as an example the page describing Pitt's smoking policy, which encourages smoking cessation.

Her committee met with Ron Frisch, associate vice chancellor for Human Resources, and other Pitt officials to discuss upgrading the lactation website.

"Ron did agree that the language on the website could be a little more supportive," Rikstad said.

"We are working on it," Frisch said after the meeting, noting that SAC had offered examples of other schools' lactation websites with more positive language for Pitt to emulate.

"We need to make that section

of the HR website a little more employee friendly."

"Sometimes you get silly reactions from people" confronted by a colleague's need to use the lactation room to express milk, Rikstad noted. "Like, 'Couldn't she just wait until she gets home?'" SAC also wants HR to compile a fact sheet about breastfeeding for women using the rooms to give to supervisors and colleagues.

The organization will consider adding a presentation to its brown bag seminar series about breastfeeding and other issues for employees returning to work after a leave.

In other news:

• Jennifer Engel of the Osher Lifelong Learning Institute gave a presentation about Osher's offerings, noting that it allows anyone to join and take non-credit Pitt courses.

More than 800 non-credit courses (about 80 of which are offered each term), often meeting weekly for five weeks, are offered through membership in Osher, which costs \$125 for one term or \$225 for a school year's three terms.

These fees allow people to take an unlimited number of

Osher courses and to audit up to two select Pitt undergraduate courses each semester. Courses require no previous college and no tests or homework, nor do they have the costs added to undergraduate tuition, such as computer fees. While Osher is targeted to those aged 50 and over, anyone may participate. Osher courses run the gamut of Pitt schools and majors, from "Discovering Nature Through Journaling" and "Portrait Drawing" to "After the Soviet Union" and "Intermediate Spanish."

• In place of SAC's annual technology fair, this spring SAC will hold a staff development forum, inspired by the all-day development programs of some of the regional SACs, such as Johnstown, which shuts down its campus offices to allow staff to attend training programs during spring and fall breaks.

• Fiona Seels, standing in for external relations committee chair Andy Stephany, announced the topics of the next lunchtime seminars: ergonomics (today, Sept. 25); education benefits (Oct. 21) and wellness (Nov. 19).

• Operations committee chair Hillary Koller announced that

applications are available for SAC's Book Fund awards. Pitt sophomores, juniors and seniors whose parents are Pitt employees are eligible. Applications are due Oct. 17; an ad hoc committee will choose winners at the end of November and award the funds in December.

• Changes to two SAC rules passed nearly unanimously. A change to the organization's operations manual clarified how former members can be reinstated. Currently, membership automatically is revoked for those with three consecutive absences without prior notification to SAC, and those with four total absences in a year. Now those whose membership was canceled must wait a year after revocation to request membership anew, at which time they will be placed at the bottom of any waiting list. Those who resign don't have to wait a year before requesting membership again, but also will be at the bottom of any waiting list.

An amendment to the bylaws will allow committee chairs to send their agendas and attendance lists to the executive vice president after their meetings, "basically in line with what we're doing now,"

said Koller. The previous rule required committee chairs to send agendas prior to meetings, and "this wasn't happening," she says.

• Lindsay J. Rodzicz was elected unanimously as SAC's vice president of public relations, following a year in which she had been the interim vice president. SAC bylaws had not allowed Rodzicz to be elected to the full office until she finished her first year as a SAC member. She is Coulter program administrator in the Swanson School of Engineering's Department of Bioengineering.

• SAC will hold its next new-member orientation at noon Oct. 14 in the William Pitt Union.

• SAC officers are planning to meet with Chancellor Patrick Gallagher in October.

• SAC members will take part in Pitt's Day of Caring on Oct. 2 by aiding the Community Human Services' Oakland Food Pantry.

• According to Executive Vice President Monica Costlow, SAC now is working with Institutional Advancement to put a new bench on campus to honor staff achievements. The bench project has been in the works for two years.

—Marty Levine



University of Pittsburgh

The Senate of the University of Pittsburgh Fall 2014 Plenary

Managing Research Data: Challenges & Opportunities at the University

Thursday, October 23
Noon – 3 pm

Assembly Room, William Pitt Union

- 11:50 Doors open/Complimentary Buffet Lunch
- 12:15 Opening of the Plenary/Introduction of Chancellor
Michael B. Spring, President, University Senate
- 12:20 Welcoming Remarks
Patrick D. Gallagher, Chancellor
- 12:40 Keynote Introduction
- 12:45 Keynote: Liz Lyon, Visiting Professor, School of Information Sciences
"Gearing up for Data? Institutional drivers, challenges and opportunities"
- 1:30 Introduction to Panel Discussion
- 1:35 Panelists respond to keynote
Kelly Dornin-Koss, Director, Education and Compliance Office for Human Subject Research
Barbara Epstein, Director, Health Sciences Library System
Jay Graham, Enterprise Architect, Computing Services and Systems Development
Jennifer Woodward, Associate Vice Provost for Research Operations
Michael J. Becich, Chairman, Department of Biomedical Informatics
Alison Langmead, Director, Visual Media Workshop, History of Art and Architecture and Assistant Professor, School of Information Sciences
- 2:05 Moderated discussion by the panel
- 2:30 Open to Audience
- 2:45 Closing Remarks
Patricia E. Beeson, Provost and Senior Vice Chancellor

To read materials in advance go to: www.univsenate.pitt.edu/research-data-management

ALL FACULTY, STAFF & STUDENTS ARE INVITED TO ATTEND

Pitt drops in QS world listing but maintains U.S. position

Pitt fell from No. 106 to rank No. 111 worldwide in the QS Top Universities 2014 World University Rankings. Pitt placed No. 32 among American universities, the same as in 2013.

MIT ranked No. 1 in the annual global ranking, released last week. Cambridge and Imperial College London tied at No. 2, followed by Harvard at No. 4 and Oxford and University College London tied at No. 5. Stanford, Caltech, Princeton and Yale rounded out the top 10.

QS Quacquarelli Symonds, a global provider of specialist higher education and careers information, has produced the

world rankings each year for the past decade. This year's list ranks the world's top 800 institutions.

Rankings are based on:

• Academic reputation (40 percent) using a global survey in which academics were asked to identify where they believed the best work in their field of expertise is taking place. Pitt placed No. 216 worldwide.

• Employer reputation (10 percent) using a global survey in which employers were asked which institutions produce the best graduates. Pitt was ranked among schools placing No. 401+ and not individually ranked in this

CONTINUED ON PAGE 5



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SAC, Senate name committee reps

The University Senate and the Staff Association Council last week announced appointments/recommendations to various University committees.

University Senate appointments to University-wide committees

- **University Planning and Budgeting Committee:** Kathleen Musante, Dietrich School of Arts and Sciences/anthropology.
- **University Review Board:** Reappointed — Cindy Tananis, education; Tony Bledsoe, A&S/biology, and Bob Daley, A&S/computer science; new appointees — Michael Goodhart, A&S/political science, and J. Patrick Card, A&S/neuroscience.

University Senate appointments to Board of Trustees committees

- **Academic Affairs/Libraries:** Elizabeth Mahoney, information sciences
- **Affirmative Action:** Valire Carr Copeland, social work, and Denise Chisholm, School of Health and Rehabilitation Sciences (SHRS)
- **Athletics:** James (Jay) Irrgang, medicine, and Kevin McLaughlin, education
- **Budget:** Catherine (Cait) Lamberton, Katz Graduate School of Business, and Frank Wilson, Pitt-Greensburg/administration of justice
- **Institutional Advancement:** Debora Miller, SHRS
- **Investment:** Frederik Schlingemann, business
- **Risk and Compliance:** Prakash Mirchandani, business
- **Student Affairs:** Anthony Bledsoe, A&S/biological sciences

Staff Association Council appointments to Board of Trustees committees

- **Student Affairs:** Michele Tschannen, Pitt Program Council
- **Budget:** Angela Coldren, business
- **Properties and Facilities:** Rich Colwell, Swanson School of Engineering
- **Health Sciences:** Carol Hodgkiss, nursing
- **Audit:** Megan Soltesz, social work
- **Risk and Compliance:** Ken Doty, engineering
- **Investment:** Monika Losagio, A&S/French & Italian languages and literatures and Hispanic languages and literatures
- **Affirmative Action:** Karen Dicks, A&S/computer science
- **Athletics:** Barbara Mowery, A&S/Advising Center
- **Institutional Advancement:** Lindsay Rodzowicz, engineering
- **Academic Affairs/Libraries:** Lynn Rosen, College of Business Administration

SAC appointments to University Senate committees

- **Community Relations:** Marissa Arlet, Institutional Animal Care and Use Committee
- **Student Affairs:** Tricia Connell, Institutional Advancement
- **Bylaws and Procedures:** Paula Carpinelli, Purchasing Services
- **Computer Usage:** Doty
- **Educational Policies:** Shelly Brown, SHRS
- **Plant Utilization and Planning:** Mario Curtis Browne, Health Sciences
- **Admissions and Student Aid:** Hillary Koller, business

- **Benefits and Welfare:** Michael Wahl, dental medicine
- **Budget Policies:** Adriana Maguina-Ugarte, Center for Latin American Studies

- **Tenure and Academic Freedom:** Nicholas Mance, engineering
- **Anti-Discriminatory Policies:** Meg Mayer-Costa, Student

- Health Service
- **Commonwealth Relations:** Mayer-Costa
- **Athletics:** Mowery
- **University Press:** Andrew Stephany, Research Administration
- **Library:** Jonah McAllister-Erickson, University Library System.

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Rudy Mazzocchi, CEO, ELENZA Inc.
The Entrepreneurial Journey

Michael G. Wells Student Health Care Entrepreneurship Competition Winner Announcement

4:45 pm, Science Lecture Hall, 3rd floor

Opening Reception and Technology Showcase

5-7 p.m. J.W. Connolly Ballroom, 1st floor

All Science 2014 registrants are invited to the eagerly anticipated Opening Reception, featuring the highly popular Technology Showcase of innovative new technologies recently developed at Pitt that are now available for licensing. In addition, for the fourth year in a row, student finalists participating in the Michael G. Wells Student Health Care Entrepreneurship Competition will display their unique technologies as a component of the Technology Showcase. All in all, it's a first look you shouldn't miss out on and includes technologies that have received development funding and mentorship from the Coulter Translational Research Partnership II and the Center for Medical Innovation.

Information: **412-624-3160**

Advance registration:
www.science2014.pitt.edu/register.htm

All Science2014 events are free and open to the public.

Pitt drops in QS world rankings, maintains in U.S.

CONTINUED FROM PAGE 4 indicator.

- Student-faculty ratio (20 percent). Pitt ranked No. 47.
- Citations per faculty member (20 percent), based on the past five years of Scopus research database data. Pitt ranked No. 85.
- International faculty and international student ratios (5 percent each), based on the proportion of international students and faculty members overall. Pitt ranked No. 257 in the faculty category and No. 251 in the student category.

Faculty rankings

In an accompanying ranking of strength of faculty in five academic areas, Pitt placed No. 111 in arts and humanities, No. 270 in engineering and technology, No. 71 in life sciences and medicine, No. 242 in natural science and No. 301 in social sciences and management.

The faculty rankings were based on surveys of academics and employers and research citations data.

The complete rankings are at www.topuniversities.com/qs-world-university-rankings.

—Kimberly K. Barlow

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Black Confederate Ghost Story

Attention African-American apparitions hung,
burned or drowned before anyone alive was born:

please make a mortifying midnight appearance
before the handyman standing on my porch
this morning with a beard as wild as Walt Whitman's.

Except he is the anti-Whitman, this white man
With confederate pins littering his denim cap and jacket.
(And by "mortify" I mean scare the shit out of him.)

I wish I were as tolerant as Walt Whitman
waltzing across the battlefield like a song
covering a cry of distress, but I want to be a storm

covering a confederate parade. The handyman's
insistence that there were brigades of black
confederates is as oxymoronic as terms like
"civil war," "free slave." It is the opposite of history.

Goodbye plantations doused in Sherman's fire
and homely lonesome women weeping
over blue and gray bodies. Goodbye colored ghosts.

You could have headed north if there was a south
to flee. In Louisiana north still begins with Mississippi,
as far as I know. East is Alabama, west is Texas,

and here is this fool telling me there were blacks
who fought to preserve slavery. Goodbye slavery.
Hello black accomplices and accomplished blacks.

Hello Robert E. Lee bobble head doll
on the handyman's dashboard whistling Dixie

across our post racial country. Last night
I watched several hours of television and saw
no blacks. NASDAQ. NASCAR. Nadda Black.

I wish there were more ghost stories
about lynched negroes haunting the mobs
that lynched them. Do I believe no one among us
was alive between 1861 and 1865?

I do and I don't. We all have to go somewhere
and we are probably always already there.

I know only one ghost story featuring a brother
in Carrolton, Alabama, dragged to the center of town
in a storm for some crime he didn't commit.

As he was hung lightning struck a window
on the courthouse he's been haunting ever since.

Attention apparitions: this is a solicitation
very much like a prayer. Your presence is requested
tonight when this man is polishing his civil war relics
and singing "Good Ol' Rebel Soldier"* to himself.

Hello sliding chairs. Hello vicious whispering shadows.
I'm a reasonable man, but I want to be as inexplicable
as something hanging a dozen feet in the air.

**Ob, I'm a good old Rebel soldier, now that's just what I am;
For this "Fair Land of Freedom" I do not give a damn!
I'm glad I fit against it, I only wish we'd won,
And I don't want no pardon for anything I done.*

Cocktails with Orpheus

After dark, the bar full of women part of me loves—the part that stood
naked outside the window of Miss Geneva, recent divorcée who owned
a gun, O Miss Geneva where are you now—Orpheus says she did

not perish, she was not turned to ash in the brutal light, she found
a good job, she made good money, she had her own insurance and
a house, she was a decent wife. I know descent lives in the word

decent. The bar noise makes a kind of silence. When Orpheus hands
me his sunglasses, I see how fire changes everything. In the mind
I am behind a woman whose skirt is hiked above her hips, as bound

as touch permits, saying don't forget me when I become the liquid
out of which names are born, salt-milk, milk-sweet and animal-made.

I want to be a human above the body, uprooted and right, a fold
of pleas released, but I am a black wound, what's left of the deed.

Poetry by MacArthur winner & Pitt English professor TERRANCE HAYES



Wigphrastic — after Ellen Gallagher

Sometimes I want a built-in scalp
that looks and feels like skin. A form of camouflage,
protection against sunburn and frostbite,
horsehair that covers the nightmares and makes me civilised.

Somebody slap a powdered wig on me so I can hammer
a couple sentences like Louis XIV small and bald
as a boiled egg making himself taller by means
of a towering hairpiece resembling a Corinthian column

or maybe a sky-scraping Kid with no Play wig
worn by someone playing *Niggaz Wit Attitude*
at a penthouse party with no Black people.

We up in the club humming *Hmm-mmm, Hey Mamma*
and our numbskull caps underscore the brain's captivity.

Somebody slap me. Norman Mailer's essay,
The White Negro: Superficial Reflections on the Hipster,
never actually uses the word wigger. I'd rather say *wback*.
It may be fruitful to consider me a philosophical psychopath.

We clubbing in our wigs of pleas and pathological
coulda-woulda-shouldas. Oblong with longing.
Some of the ladies are wigs of No Nos and nots,
knots of nots: do nots, cannots, aughta nots.

Wigs dipped in dye the colour of Cosmopolitans,
citrus, wheat beer swirling on their scalps, off their scalps,
sides of scalps, their centre parts, and irrigated plaits.

Flirty Bangs dangle below a bow clip of sparkle.
A lady places her bow about face to place her face in place.
Which is a placebo of place, her face is a placebo.

Let's wear ready-made wigs, custom-made wigs,
hand-tied wigs and machine-made wigs.

'No Negro can saunter down a street with any real certainty
that violence will not visit him,' wrote Mailer.

Bullets shout through the darkness. Dumb people are dangerous.
'Calamity pimps come out of the woodwork
and start to paddle their own canoes.'
This was a white dude's response to the death of Martin.
Later let's beat that apathy wig off him.

You wear the shark-head wig and I'll wear the wig of tidewater
rising to the ceiling. You wear the buckaroo wig
and I'll wear a wig of tumbleweed. When anyone says,

'You look beautiful,' reply: 'I feel beautiful'
like the beautiful shoulder length locks
shorn from a cancer stuffed bride in need of money.

Let's get higher than God tonight like the military wives
of Imperial Rome smiling in the blonde and red-haired wigs
cut from the scalps of enemy captives. Somebody slap me.

We awash in liquor watching the coils curl,
curls coil, coils coil, curls curl on the girls.

Nonslip polyurethane patches, superfine lace,
Isis wigs, Cleopatra wigs, Big Bootie Judy wigs
under the soft radar streaked music of *Klymaxx*
singing 'The men all pause when I walk into the room.'

The men all paws. Animals. The men all fangles,
the men all wolf-woofs and a little bit lost, lust,
lustrous, trustless, restless as the rest of us.

In my life the wigs eat me. The wish to live awhile on the mind
of another human is not inhuman. The wish to slide
for a while inside another human, it is not inhuman.

If you like 'like' like I like 'like,' you should wear a hairpiece.
It is peace of mind. It is artistic. It is a lightweight likeness,
comfortable, wash and wear, virtually looking and feeling
with virtually no side effects. Let me hear you say:

'This wig is terrific!' A coloured despair wig
for your coloured despair, an economic despair wig,
a sexual despair wig, a wig for expressive despair,
political despair, a movable halo. New and improved,

your wig can be set upon the older wig
just as the older wig was set,
when it was newer, upon the wig beneath it.
Where's your wig? Wear your wig. Your wig is terrific.

Provost delays IP form deadline

CONTINUED FROM PAGE 1

□
The task force, which initially met last week and was scheduled to meet again this week, includes representatives of Faculty Assembly, including TAFC members, and other researchers from throughout the University community.

The group was given a Sept. 30 deadline to make recommendations.

Ken Service, vice chancellor for communications, told the University Times that the provost intends to move quickly on revising the IP assignment agreement after receiving the task force's input.

Spring, a task force appointee, said the group is dealing narrowly with the issue of how the University handles the assignment of IP discoveries, not with Pitt's IP policies themselves, which have been

in place for more than a decade.

Spring maintained his opinion that the IP assignment agreement does not alter existing University policy. "This is about avoiding a situation in which a faculty member inadvertently and unintentionally assigned IP away to a company," he said, acknowledging that there is disagreement about *Stanford v. Roche*.

"If we were committing to something new or taking away something we'd agreed to, I would be more concerned," Spring said, acknowledging that the wording of the IP rights assignment, intended to be brief, instead was perceived by some as terse and complicated by standard legal wording that some faculty found off-putting. With a careful reading, "It's really pretty vanilla," he said.

Spring said opinions around

the table diverged at the task force's initial meeting last week. "I believe she listened to every faculty member around the room," Spring said of the provost. "I think that she is listening very carefully." He was optimistic that the issues can be resolved.

Spring added that the separate issue of University IP policy itself is one that the Pitt administration has expressed interest in reviewing, with an eye toward facilitating innovation.

"If we're going to disseminate knowledge as we should ...

it may be that our current policy is not optimally aligned to meet these goals," he said, adding that a Senate-administration joint committee is being discussed and could be formed this year.

Such a policy review could take as much as a year or more, Spring said.

"The broader issue will involve collecting a lot of data. That just takes time."

—Kimberly K. Barlow ■

ULS search committee being formed

Faculty and staff representatives have been named to the search committee for a new University Library System director.

In an electronic ballot conducted Aug. 26-Sept. 10, the University Senate elected Mark Lynn Anderson of the Dietrich School of Arts and Sciences/Department of English; Sheila Corral of the School of Information Sciences, and Andrew Strathern of A&S/Department of Anthropology, to fill faculty seats on the ULS director search committee.

The Staff Association Council named ULS staffer Jonah Y. McAllister-Erickson as its representative on the committee.

The full committee roster has not yet been finalized, a Provost's office representative told the University Times.

Rush Miller, who has served as ULS director and Hillman University librarian since 1994, announced in June that he would retire Dec. 31. ■

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In the Locust Grove Senior Care facility in West Mifflin, a few doors down from Emeritus Professor of Health Law Nathan Hershey's room, a man shouts for help. He calls out every five seconds, forlornly, as if he were stranded on a mountaintop.

After an employee stops in his doorway to ask what can be done, then walks away — apparently, it's no emergency — the man begins to shout again. Clearly his distress runs deeper than the moment's need.

Nat Hershey's daughter Madeleine shuts the door on the noise and offers a visitor water.

"Want to drink anything else?" says Nat Hershey, smiling. He is propped in bed in a T-shirt and shorts. Two liquor bottles sit next to his small sink. The single room, with its desk, table and chairs, is modestly decorated with family photos and other memorabilia. Nat's golf bag is propped in the open closet. But he probably hasn't golfed much lately. Nat Hershey has Alzheimer's disease. And he says he wants to die, or at least be in charge of making that decision.

"I really never thought about the idea of it being an act of courage to wish to pass on," he says. "At some point, life under bad conditions can occur to some people, and it's something to avoid at all costs.

"You hear that guy yelling? I wonder how he feels? Right now, my concentration, to the extent I have it, is to avoid situations and encounters that will emphasize my lack of, I guess you'd call it control, over my future. In some respect, I'd like to be able to make the decision on my own as to when to cash in or pass out or whatever you'd like to call it."

Madeleine is in the midst of re-reading her father the essay he published in the Post-Gazette a few weeks before, written with the help of an assistant. Hershey asks her to slow down at times. He is having some trouble catching the meaning of lines he himself penned.

"I cannot manage to die," the piece was headlined:

I would prefer to bring my life to an end at a time of my choosing, but it appears that I am unable to do so without help, it began. I do not want to do it in a way that will bring possible penalty to anyone who would choose to cooperate with me ... Due to both the progression of my Alzheimer's and the permanent effects of a stroke, my capacity to plan and accomplish is severely inhibited. I rely on the help of my daughters ... My intelligence and autonomy have been of utmost importance to me for almost all my life. [...] To exist in such extreme dependence today is agonizing for me.

Despite his conditions, which include congestive heart failure and a bad heart valve, he is still in too good a shape at 84 to qualify for assistance in dying in the three U.S. states that offer aid to the terminally ill. In Washington, Oregon and Vermont, besides establishing residency, he would have to prove that he is likely to die in the next six months, and yet retains a sound mind. With Alzheimer's, that may never be possible for Nat Hershey.

Live too long, lose your right to make a decision that will be honored, his article concluded.

Just two years ago this month, the Pitt School of Law held a symposium titled "There at the Creation: Nathan Hershey, the History of Health Law and Health Care Reform" to celebrate his role, beginning in 1956, in the creation of the field. Hershey had a central part in the Graduate School of Public Health's Health Law Center, which undertook the first compilation of state laws governing hospitals. According to his law colleague Alan Meisel, who organized the symposium and has known Hershey since 1973, Nat Hershey was probably best known for his work in the field of hospital/physician relations and physician's staff privileges.

Today, he doesn't particularly feel like getting out of bed to talk.

But Nat and Madeleine Hershey speak dispassionately and without hesitation about his desire to leave this life. Madeleine recalls his lectures on euthanasia and talking to her father about his membership and donations to Compassion and Choices, once called the Hemlock Society, which works "to protect and expand options at the end of life," its website says, including "aid in dying."

"A person should be the master of his or her fate," Nat Hershey says. "And if you're not in a comfortable situation living, why is it in anybody's business or control to keep you alive nonetheless?" He points out that prolonging life when that is not a person's wish also can have tremendous financial costs to family and to the health care industry.

"Who is being harmed?" he says. "Why isn't that your freedom? You can get married, divorced, all these things. Why can't you decide you don't want to live anymore and have all these burdens thrown at you to keep you alive?"

Seemingly still the professor, he is even better at arguing the devil's advocate position. Should those who wish to die have a right to request aid from physicians? he asks. "There also needs to be some policy or program that indicates a person has reached this conclusion, understands enough about the situation and believes it is a decision he or she wants to achieve."

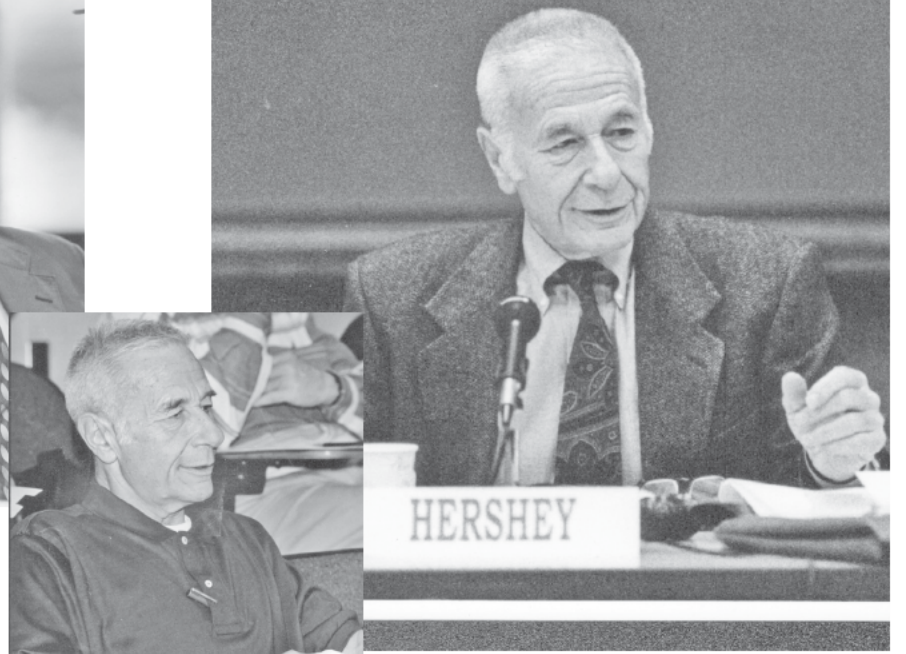
Still, he adds, "some people would say, anyone who wants to do that is nuts. Who can you trust in those circumstances? If anyone can benefit from anyone dying early, a lot of people would say that was a fishy decision. The problem is, people may say things at the spur of the moment about something that may not be a very thoughtful decision. 'I'd rather die than be married.' The decision could be stupid. So I could see having the law say a decision to end one's life can't be followed until 90 days have elapsed ..." And if the law requires a person to have less than six months to live, "who makes the decision that the person is terminally ill? It shouldn't be a person who has anything to gain. It should be a neutral person."

Madeleine pulls up a copy on her phone of her father's living will declaration/advance medical directive. It instructs his family, doctors and "all those concerned with my care" to avoid a long slate of treatment measures, should he be "incapacitated/incompetent

Emeritus faculty member prompts debate over the **RIGHT to DIE**



Nathan Hershey, emeritus professor of health law, wants to be in charge of deciding his own death.



Hershey was active in the University Senate, serving three terms as vice president (1995-98) and three terms as president (1998-2001).

[and] in an end-stage (formerly 'terminal') medical condition or in a state of permanent unconsciousness, even if that shortens my life." He requests only measures "to keep me comfortable and to relieve pain. ..." Those measures may include "palliative/terminal sedation."

Madeleine is designated his "surrogate" in medical decisions — she holds his power of attorney — and he requests to spend his last days at home, "if an undue burden is not imposed on my family."

"We've done absolutely everything we can to have my dad's wishes be present and fulfillable," she says.

That may not be enough, says Meisel, who is the Dickie, McCamey & Chilcote Professor of Bioethics and professor of law and psychiatry as well as the founder and director of the Center for Bioethics and Health Law.

"Whether or not your wishes are going to be honored is dependent on who has responsibility for your well being," Meisel points out. If your last hours, days or weeks are in a nursing home, the staff likely will try to provide all possible treatment measures, or send you to a hospital. "Nobody wants you to die in a nursing home," he says. In hospitals, the medical staff are somewhat more likely to follow your directives, while hospices are most willing to accede to the wishes of the dying.

Yet, if you are in failing health at home, your written, legal desires may not be granted, even if you have chosen to forgo medication or all food and water to passively end your life. Family members sometimes find it difficult to comply with such wishes. Dying at home also may require 24-hour supervision by non-family members, and hired help may not as readily honor a person's last wishes.

"Some people are unwilling

to help," Meisel says. "Others are unwilling to sit by and watch their loved ones die of starvation. It's not a quick process." They may try to force food into the patient. To "seek the cooperation of other people ... as a practical matter it's not always easy to engineer."

Pennsylvania state law makes it a criminal offense for one person to aid another in committing suicide "or essentially pressuring someone to commit suicide," he explains.

Thus, in any situation in which a person dies by his own hand, "question one, is this suicide? It depends on how you seek to end your life. If you seek to end your life by 'active' means and you seek the aid of somebody to help you do that, that would implicate them in criminal activity."

Meisel runs through several scenarios, many of which are not entirely clear under state law, he says. If you are a terminally ill person and ask a friend to shoot you, "that is probably worse than aiding suicide, that is probably murder." Even asking to be given a gun has the same implications. Asking a friend to give you your pain medication bottle, for which you have a prescription, is "probably" still aiding suicide if the friend is aware of your immediate desires. But asking your friend to hand you the same bottle, when the friend doesn't know your intentions: "That is probably not aiding suicide, even if you take an overdose."

What if you tell your friend about your intentions to end your life, and your friend does nothing — doesn't help, but doesn't interfere? Even if the friend witnesses you pick up a gun and chooses at that moment not to jump between you and the bullet or grab the gun away, "this is not aiding suicide."

The scenarios shift dramatically, however, if the other party is "the person who has legal responsibility for your well-being," Meisel says. Standing by

while another kills himself "could be aiding suicide."

If you're in a long-term care facility and an employee, such as a nurse, is involved in your death, "there is a higher degree of likelihood that that person could be liable for not intervening because that person has responsibility for and custody of the patient."

However, if the responsible person is a spouse or child, and the dying person is home and merely explains his intentions, "I do not believe in that situation that individual has responsibility" for the death.

All of the above are examples of potential aid in "active" dying. There are other ways, usually called "passive" methods, for a person to fulfill end-of-life wishes, "although the line between the two is not always so bright," Meisel allows.

Refusing medical treatment or food and water already are rights for patients in the U.S. Caretakers are not required to intervene and forcing food on a conscious person is the crime of battery.

Of course, Meisel adds, "this all assumes one has the legal decision-making capacity." If a person is unconscious, they've entered Catch-22 territory: They may have decided already to end their lives to avoid suffering or living under certain conditions, but now they cannot make a legal decision and lack the capacity to act on that decision.

Even with other states considering legislation to join the three with aid-in-dying laws, there remains no federal constitutional right to end your life. The Supreme Court in 1997 ruled that such rights had been ceded to individual states to decide. The justices also felt that palliative care was helping enough individuals through the end of life.

"Although the court left open the possibility" of re-examining whether Americans really are getting the right care at the end of

life, Meisel says.

One line of thought behind the court's decision, he says, is that "if people are depressed, we can treat that, we can make them less miserable. We've got pain medication, we've got anti-depressants."

But the No. 1 argument underlying the legal prohibition on suicide always has been theological, Meisel points out: that "one's existence, in Christian thought, is in God's hands."

Those who oppose Nat Hershey's viewpoint also often invoke slippery-slope arguments: Who is qualified to make the decision that a person may end his own life, and who is qualified to help carry out that decision? Such arguments lead to politicians conjuring the idea of government "death panels" giving thumbs up or down to the elderly, to evocations of the Nazis' euthanizing those with birth defects, or to science-fiction scenarios from "Soylent Green" to today's film "The Giver," in which babies are chosen for elimination when they show undesirable personality traits, and the elderly are marched off to oblivion.

Meisel sees humanity headed in another direction. "Human beings are capable of drawing reasoned distinctions" between ethical and unethical decision making, he says. "Just because they have been abused by other societies in other times doesn't mean there will be abuses in the future."

Over last 40 years, he says, the law increasingly has recognized the right to refuse life-saving treatments, and doctors and nurses increasingly are willing to

comply — and all of it has happened without widespread abuses.

Still, not everyone is prepared to take the steps Nat Hershey has advocated publicly, says Steven M. Albert, professor and chair of behavioral and community health sciences in the Graduate School of Public Health, whose specialties include the assessment of health outcomes in aging.

Dying, Albert says, "is a public health issue." About 2.5 million people die in the U.S. every year. "The cause of death is increasingly listed as Alzheimer's disease on death certificates," if not always as the primary cause.

He calls today "the age of patient determination," in which patients receiving diagnoses or treatment recommendations more often want to see the doctor's evidence. "I remember, as a child, birth wasn't something families would get involved in very much." Nowadays, families are often witnesses or even par-



Steven M. Albert

ticipants in deliveries. "I wonder if death is now the same," heading for an era in which families have more say in death decisions.

He points out that the three states' aid-in-dying laws are "used very little" — last year by 71 people in Oregon and 119 in Washington, according to another advocacy group, Death With Dignity. Even among people who get prescriptions for sedatives, very few use them, he says, since more people may have the desire than can act on it.

Albert's own research also shows that Hershey's wish and willingness to end his life may be a minority position. Surveying 80 people in the last six months of life with ALS (amyotrophic lateral sclerosis, or Lou Gehrig's disease), Albert found that "in the vast middle are people who don't really have any opinion and don't know what they want." Only 10-20 percent want every measure possible to prolong life at any cost. The same proportion is at the other end of the spectrum, disliking disability enough to wish to end their lives.

Albert says he recognizes Hershey as one of the latter group: "I did get to talk to him over the years and this is very consistent with his personality ... given his concern for autonomy. Those are some of the hardest cases, because here's a guy who you can see that disability in itself is so objectionable to him that he doesn't want to live."

Overall, the desire to end their lives, among Albert's research subjects, seems to be based more on an individual's personality than

on a disease's progress: "There is a small group of people who make the rational decision that they don't want to live like this. And that is why it is a difficult situation."

"Most of us agree that physicians should not be in the business of killing people," he adds — that they should not be writing lethal prescriptions. But physicians who treat distress or pain know that medications for these symptoms can sometimes suppress breathing, and that people may use them to help themselves die.

Suppose Pennsylvania law allowed Hershey to receive a lethal amount of sedatives to put aside for some future moment, Albert speculates. "He might never use it. Just giving him that option is enough to give him encouragement."

Albert believes that quality of life can continue past autonomy, even in an assisted living facility or nursing home. "But we don't have therapies that will reverse the dementia."

Meisel offers advice for those who share Nat Hershey's viewpoint:

"First, while you have decision-making capacity, write in an advanced directive what you want and what you don't want."

Second, talk to family physicians and close family members about your desires. "In a state like Pennsylvania, if you're not being kept alive by treatment, the only way to end your life legally is to stop eating and drinking."

"The other advice I would give is to try to stay out of a health care

institution," so family members can be involved most directly in end-of-life decisions.

Finally, he adds: "Don't write articles about this and publish them in the newspaper, because if you die there is more likelihood to be an investigation" of family members' roles.

Nat Hershey, of course, had worried about "possible penalty" to his loved ones in that very article. Today, in his senior-care facility, he seems unconcerned about possible penalties to himself from doing anything, except staying alive.

"I feel like I've had a complete life by my standards," he says. "So I really don't care. I'm not going to get a big emotional thrill about being alive 2,000 days further, so they can say 'Nat Hershey lasted until 89.' That is not a great achievement for me."

"How much burden does continued life put on a person? We really don't question people: How long do you want to live?" —Marty Levine



Alan Meisel

Bellet Teaching Awards Call for Nominations

From October 1 through October 31, 2014, the Kenneth P. Dietrich School of Arts and Sciences will accept nominations for the 2015 **Tina & David Bellet Teaching Excellence Awards**. These annual awards recognize extraordinary achievement and innovation in undergraduate teaching. Winners receive a onetime stipend of \$5,000.

Eligibility Requirements

- ◆ Must be a Dietrich School of Arts and Sciences faculty member with a regular full-time appointment who teaches undergraduate students
- ◆ Must have taught for at least three years on the Pittsburgh campus
- ◆ Must receive three or more nominations

Eligible nominees will be notified and invited to submit a dossier for further consideration by the Bellet Awards committee.

Faculty and students may submit nomination letters to Dietrich School Associate Dean for Undergraduate Studies John A. Twyning at asundergrad@as.pitt.edu or 140 Thackeray Hall.

For more information, contact Carol Lynch at clynch@pitt.edu or visit our Web site at www.as.pitt.edu/teaching/bellet.

UNIVERSITY OF PITTSBURGH

The DIETRICH School of Arts & Sciences

2014 Bellet Award Winner Charlie Jones, Department of Geology and Planetary Science



SCIENCE 2014

SUSTAIN IT!

@PITTHEALTHSCI #SCIENCE2014

SCHEDULE OF EVENTS

THURSDAY, 2 OCTOBER

8:00 a.m.

REGISTRATION

ALUMNI HALL FOYER, 1ST FLOOR

9:00 a.m.

SPOTLIGHT SESSION 1: GUT FEELINGS (AND OTHER RESPONSES FROM OUR MICROBIOMES)

SCIENCE LECTURE HALL, 3RD FLOOR

MODERATOR: Michael J. Morowitz, MD

- **Stephen J.D. O'Keefe, MD, MSc**—Change Your Diet, Change Your Colon Cancer Risk
- **Aaron P. Mitchell, PhD**—Rules of Engagement: Pathogen Gene Regulation during Invasive Infection
- **Alison Morris, MD, MS**—The Lung Microbiome: Fact or Fiction?
- **David G. Binion, MD**—Inflammatory Bowel Disease: The Microbiome and Chronic Gut Inflammation

SPOTLIGHT SESSION 2: HUMAN AS COMPUTER/COMPUTER AS HUMAN

ROOM 531

MODERATOR: Gregory Cooper, MD, PhD

- **Nathan N. Urban, PhD**—Brains versus Computers: The Parts List
- **Wei Wang, MD, PhD**—Terticephalon: A Third Hemisphere? A Co-Processor? Synergies in Brain-Computer Interaction and Impact for Health and Rehabilitation
- **Panayiotis (Takis) Benos, PhD**—From Theory to Practice: Can Computers Help with Disease Management?
- **Armaghan (Rumi) Naik, PhD**—Computer as Scientist: Automating Biomedical Research through Active Machine Learning

SPOTLIGHT SESSION 3: THE SCIENCE OF BEING GREEN

ROOM 532

MODERATOR: Eric Beckman, PhD

- **Sean Garrett-Roe, PhD**—Ultrafast Vibrational Spectroscopy of Ionic Liquids: Probing the Molecular Basis of CO₂ Scrubbing
- **Vikas Khanna, PhD**—Measuring the Greenness of Bioenergy: Why and How?
- **Melissa Bilec, PhD**—Sustainable Health Care: A Paradox or a Possibility?
- **Emily M. Elliott, PhD**—Too Much Green: Excess Nitrogen in Urban Environments

10:30 a.m.

EXHIBIT BREAK

J.W. CONNOLLY BALLROOM, 1ST FLOOR

11:00 a.m.

PLENARY SESSION 1: DICKSON PRIZE IN MEDICINE LECTURE

AUDITORIUM, 7TH FLOOR

WELCOME: Patrick D. Gallagher, PhD

INTRODUCTION OF SPEAKER: Arthur S. Levine, MD

KEYNOTE SPEAKER: Jeffrey I. Gordon, MD

A Microbial View of Human Development: The Gut Microbiota and Childhood Undernutrition



Jeffrey I. Gordon, MD

12:30 p.m.

EXHIBITS & LUNCH

J.W. CONNOLLY BALLROOM, 1ST FLOOR

LUNCHTIME LEARNING 1: SHALE GAS EXTRACTION: SHOULD WE OR SHOULDN'T WE?

ROOM 531

MODERATOR: Donald C. Shields, MPM, MS

DISCUSSANTS: Loren A. Anderson, Bruce R. Pitt, PhD, and Radisav D. Vidic, PhD

1:00 p.m.

POSTER SESSION 1

J.W. CONNOLLY BALLROOM, 1ST FLOOR

Basic Life Science—From Molecule to Mouse

Translational Life Science—From Animal to Human to Community

Physical Science and Engineering

New Research Tools and Techniques

Wednesday, 1 October through Friday, 3 October

WEDNESDAY, 1 OCTOBER

3:00 p.m.

CAREER SYMPOSIUM FOR POSTDOCS AND GRADUATE STUDENTS

EXPLORING YOUR PASSIONS AND RECOGNIZING YOUR POTENTIAL

UNIVERSITY CLUB, BALLROOM B

123 UNIVERSITY PLACE

This interactive workshop, presented by the Office of Academic Career Development, Health Sciences and the University of Pittsburgh Postdoctoral Association, is designed to bolster the professional development of postdoctoral fellows and graduate students by providing practical input for discovering emerging opportunities in today's job market. The featured guest speaker, Jon Kowalski, PhD, of McKinsey & Company, will be joined by professionals from science-related fields who will facilitate roundtable discussions about career prospects in a variety of settings.

3:30 p.m.

REGISTRATION

ALUMNI HALL FOYER, 1ST FLOOR

4:00 p.m.

MICHAEL G. WELLS ENTREPRENEURIAL SCHOLARS LECTURE

SCIENCE LECTURE HALL, 3RD FLOOR

INTRODUCTION OF SPEAKER:

Michael G. Wells

KEYNOTE SPEAKER: Rudy Mazzocchi, CEO, ELENZA Inc.

The Entrepreneurial Journey



Rudy Mazzocchi

4:45 p.m.

MICHAEL G. WELLS STUDENT HEALTH CARE ENTREPRENEURSHIP COMPETITION WINNER ANNOUNCEMENT

SCIENCE LECTURE HALL, 3RD FLOOR

PRESENTERS: Marc S. Malandro, PhD, and Michael G. Wells

This exciting competition for Pitt students and their unique technologies is in its fourth year. The winner will receive \$10,000 to further the project toward commercialization.

5:00 p.m.

OPENING RECEPTION AND TECHNOLOGY SHOWCASE

J.W. CONNOLLY BALLROOM, 1ST FLOOR

All Science 2014 registrants are invited to this eagerly anticipated Opening Reception, featuring the highly popular Technology Showcase of innovative new technologies recently developed at Pitt that are now available for licensing. It's a first look you shouldn't miss out on and includes technologies that have received development funding and mentorship from the Coulter Translational Research Partners II Program and the Center for Medical Innovation.

The Wells Lecture, Wells Competition, Opening Reception, and Technology Showcase are organized and sponsored by the University of Pittsburgh Innovation Institute.

2:00 p.m.

**SPOTLIGHT SESSION 4:
SO WE HAVE THE SEQUENCE—
NOW WHAT?**

SCIENCE LECTURE HALL, 3RD FLOOR

MODERATOR: Philip E. Empey, PharmD, PhD

- **Dietrich A. Stephan, PhD**—Genome to Report: Variant Interpretation, Communication, and Clinical Action across Clinical Use Cases
- **Adrian Lee, PhD**—Cancer Genomics: The More We Sequence, the More We Find
- **Russell S. Schwartz, PhD**—What Sequencing Can (and Can't) Tell Us about Tumor Evolution
- **Maria Chikina, PhD**—Gene Function in Animals: Context Is Everything

**SPOTLIGHT SESSION 5:
"SEEING" THINGS IN NEW WAYS**

ROOM 532

MODERATOR: Donna Beer Stolz, PhD

- **Chakra Chennubhotla, PhD**—Computational Pathology To Reveal Molecular Origins of Human Epithelial Malignancies
- **Prithu Sundd, PhD**—Visualizing Sickle Cell Disease through the Lens
- **Marcel Bruchez, PhD**—Fluorogen Activating Protein-Based Measurement and Manipulation of Complex Biological Processes
- **Anthony Kontos, PhD**—"Seeing" Concussion in a New Light: Emerging Trends in Research and Practice

**SPOTLIGHT SESSION 6:
WHERE DOES CANCER COME FROM?**

ROOM 531

MODERATOR: Bennett Van Houten, PhD

- **Mei Zhang, PhD**—What Happens When Powerful, Good Cells Go Bad?
- **Thomas W. Kensler, PhD**—Environment Matters: Changing Rates of Cancer in China
- **Roderick J. O'Sullivan, PhD**—Switching Telomere Maintenance Pathways by Altering Histone Transfer
- **Patrick Moore, MD, MPH**—Cancer Viruses and What They Tell Us about Protein Processing

3:30 p.m.

EXHIBIT BREAK

J.W. CONNOLLY BALLROOM, 1ST FLOOR

4:00 p.m.

**PLENARY SESSION 2:
PROVOST LECTURE**

AUDITORIUM, 7TH FLOOR

WELCOME AND INTRODUCTION OF SPEAKER:

Patricia E. Beeson, PhD

KEYNOTE SPEAKER:

Jonathan M. Rothberg, PhD

The Development of High-Speed DNA Sequencing: Neanderthal, Moore, and You



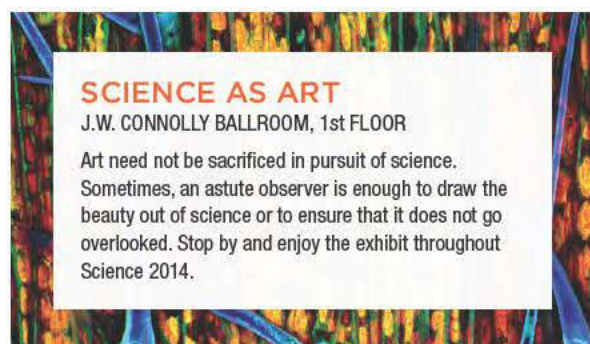
Jonathan M. Rothberg, PhD

5:00 p.m.

**UNDERGRADUATE RESEARCH
POSTER RECEPTION**

J.W. CONNOLLY BALLROOM, 1ST FLOOR

At a special reception open to all Science 2014 registrants, undergraduates from across the University will exhibit faculty-mentored posters in basic science, medicine, and engineering.



SCIENCE AS ART

J.W. CONNOLLY BALLROOM, 1st FLOOR

Art need not be sacrificed in pursuit of science. Sometimes, an astute observer is enough to draw the beauty out of science or to ensure that it does not go overlooked. Stop by and enjoy the exhibit throughout Science 2014.

Admission to all Science 2014 events is free and open to the public, but registration is required: www.science2014.pitt.edu. On-site registration will be available.

FRIDAY, 3 OCTOBER

8:00 a.m.

REGISTRATION

ALUMNI HALL FOYER, 1ST FLOOR

9:00 a.m.

**SPOTLIGHT SESSION 7:
IT'S IN THE BLOOD**

ROOM 531

MODERATOR: Patrick Pagano, PhD

- **Solomon Ofori-Acquah, PhD**—Forecasting Alveolar Flooding from a Rising DAMP in Blood
- **Gregory J. Kato, MD**—Is It Possible in the Iron City to Have Too Much of a Good Thing?
- **Mark Gladwin, MD**—Nitric Oxide Signaling and Dysregulation in Sickle Cell Disease
- **Grant Carl Bullock, MD, PhD**—Iron Shortage in the Steel City: Effects on Red Blood Cell Production

**SPOTLIGHT SESSION 8:
MAKE IT ON A 3D PRINTER—ADDITIVE
MANUFACTURING FROM PROTOTYPE
TO PRODUCTION**

ROOM 532

MODERATOR: Mark Redfern, PhD

- **Brian Gleeson, PhD**—Exploiting the Potential of Additive Manufacturing for Component Repair
- **Prashant N. Kumta, PhD**—3D Printing of Degradable Metals: A Panacea for Medical Devices
- **Albert C. To, PhD**—Expanding the Horizon of Mechanical Design by Integrating 3D Printing, Lattice Structure, and Computational Micromechanics
- **Markus Chmielus, PhD**—Microstructural Characterization and Mechanical Properties of 3D Printed Structures

**SPOTLIGHT SESSION 9:
ON AGAIN/OFF AGAIN THROUGH
EPIGENETICS**

SCIENCE LECTURE HALL, 3RD FLOOR

MODERATOR: Patricia Opresko, PhD

- **J. Richard Chaillet, MD, PhD**—Epigenetic Inheritance by Neglect
- **Kabirul Islam, PhD**—Epigenetics and Chemistry: "Cool Couple" for Switching Genes "On" and "Off"
- **Dennis Kostka, PhD**—Modeling Epigenetic Changes during Tissue Development and Differentiation
- **Li Lan, MD, PhD**—A Novel Method To Visualize the Response to DNA Damage at a Specific Genome Locus

10:30 a.m.

EXHIBIT BREAK

J.W. CONNOLLY BALLROOM, 1ST FLOOR

11:00 a.m.

**PLENARY SESSION 3:
MELLON LECTURE**

AUDITORIUM, 7TH FLOOR

WELCOME AND INTRODUCTION OF SPEAKER:

Arthur S. Levine, MD

KEYNOTE SPEAKER: Stuart H. Orkin, MD

Bringing Genetics and Epigenetics to the Fetal-Adult Hemoglobin Switch



Stuart H. Orkin, MD

12:30 p.m.

LUNCH & LAST CALL FOR EXHIBITS

J.W. CONNOLLY BALLROOM, 1ST FLOOR

**LUNCHTIME LEARNING 2:
SUSTAINING SCIENCE FUNDING**

ROOM 531

MODERATORS: Patricia E. Beeson, PhD, and Jeremy Berg, PhD, MS

1:00 p.m.

POSTER SESSION 2

J.W. CONNOLLY BALLROOM, 1ST FLOOR

Basic Life Science—From Molecule to Mouse

Translational Life Science—From Animal to Human to Community

Physical Science and Engineering

New Research Tools and Techniques

2:00 p.m.

**PLENARY SESSION 4:
KLAUS HOFMANN
LECTURE**

AUDITORIUM, 7TH FLOOR

WELCOME AND INTRODUCTION OF

SPEAKER: Arthur S. Levine, MD

KEYNOTE SPEAKER:

Jeannie T. Lee, MD, PhD

X-Chromosome Inactivation as a Model for Epigenetic Regulation by Long Noncoding RNA



Jeannie T. Lee, MD, PhD

3:00 p.m.

EXHIBIT BREAK

J.W. CONNOLLY BALLROOM, 1ST FLOOR

3:30 p.m.

**SPOTLIGHT SESSION 10:
STEM CELLS REMIXED**

SCIENCE LECTURE HALL, 3RD FLOOR

MODERATOR: Eric Lagasse, PhD, PharmD

- **Aleksandar Rajkovic, MD, PhD**—Egg Regeneration: Are Women and Men Really Alike?
- **Vishwajit L. Nimgaonkar, MD, PhD**—"Brainy" iPSC-Derived Neurons
- **Kyle E. Orwig, PhD**—Stem Cell Therapies for Male Infertility
- **George K. Michalopoulos, MD, PhD**—Liver Solutions to Stem Cells

**SPOTLIGHT SESSION 11:
GENE SORTING AND EDITING
TECHNIQUES**

ROOM 531

MODERATOR: Meir Aridor, PhD

- **Alexander (Sasha) D. Sorkin, PhD**—Trafficking of Ras in Gene-Edited Cells
- **Linton M. Traub, PhD**—TALENTed Investigators: Turning Biochemists and Cell Biologists into Geneticists
- **Arohan R. Subramanya, MD**—Dissecting Signaling Networks with the CRISPR-Cas9 Gene Editing System
- **Robert W. Sobol, PhD**—Knocking, Cutting, and Interjecting: Tweaking the Genome to Understand Genome Repair

**SPOTLIGHT SESSION 12:
DO I KNOW YOU? MOLECULAR
RECOGNITION**

ROOM 532

MODERATOR: David Waldeck, PhD

- **Alexander Deiters, PhD**—Expanding the Genetic Code: What if God Had Worked on Sunday?
- **Bruce Armitage, PhD**—Attack! Invasion of Guanine Quadruplex Structures by Peptide Nucleic Acids
- **Carlos J. Camacho, PhD**—One-Click Drug Discovery Solutions among 50 Million Compounds for Preview and Download
- **Craig Wilcox, PhD**—Forces of Life on Balance: The Molecular Torsion Balance

5:00 p.m.

CLOSING HAPPY HOUR

FOYER, 5TH FLOOR

After three intense days of terrific science, it will be time to kick back and enjoy a bit of food and drink.



University of Pittsburgh

RESEARCH NOTES

UPB prof presents McKean County offender study

Gregory Page, psychology faculty member at Pitt-Bradford, presented findings about McKean County offender characteristics to the American Psychological Association's annual convention last month.

Page examined the court records and judicial files of 258 defendants processed by the McKean County Court of Common Pleas during 2012. While preserving the anonymity of each defendant, he recorded age, sex, prior offenses, drug and alcohol use and/or treatment and other characteristics. He focused on a rural population since previous research has neglected to explore rural court systems. By examining court records, he was able to include defendants who were not incarcerated in addition to those who were incarcerated, thereby giving a more complete picture of the rural defendants.

Among the statistically significant correlations he discovered: Those who committed violent offenses tended not to use a weapon or use illegal substances during the offense. Those who committed a general criminal offense did not tend to have a previous domestic violence allegation or charge. Men were more likely than women to commit theft-related offenses, violent offenses and general criminal offenses.

Page plans to expand the data set to include 10 years of data

from McKean County criminal court in order to further examine trends or patterns in this rural population. He plans to share his initial and subsequent findings with McKean County President Judge John Pavlock.

Project aims to turn world from AC to DC

Bopaya Bidanda, John Camillus and Gregory Reed think it might be time to redirect Pittsburgh's attention to direct current (DC), reversing the late 1880s battle won by Pittsburgh native George Westinghouse over Thomas Edison to base the country's electric power grid on alternating current (AC).

Using an \$800,000 grant from the Henry L. Hillman Foundation, the three faculty members are approaching the promise of DC power from two distinct perspectives.

Reed, interim director of the Center for Energy, director of the Swanson School of Engineering's Electric Power Initiative and an electrical and computer engineering faculty member, will address DC technology, studying ways to convert the longstanding AC power grid to a DC grid. He believes DC has become a more efficient and logical way of addressing energy delivery needs, especially in the 21st century and beyond.

Noted Reed: "Your laptop runs on a few volts DC, [but] it has to be converted from AC by that box, the converter on the

power cord." The same is the case for high-definition televisions, most appliances, cell phones, and other consumer devices and office equipment. "Very few items today require three-phase alternating current. The use and development of today's evolving energy mix makes the transition to DC more sensible and viable for future power delivery needs."

He and members of his lab also are advancing research into high-voltage DC systems, which present the potential of developing a commercially viable high-voltage DC grid. "Both academia and industry have made great strides in DC technology development, which will be a game changer in modernizing and securing the nation's grid," he said. "We'd like to develop DC microgrids, community microgrids in residential developments, offices, commercial buildings and industrial facilities. I've been working on this for more than a decade, and DC offers a much better match between energy transmission and use."

Over the next year, Reed's group will develop new DC concepts, designs and technology. He also hopes to find ways to engage the marketplace, both on industrial and consumer levels, in the project.

Camillus, the Donald R. Beall Professor of Strategic Management in the Katz Graduate School of Business, and Bidanda, the Ernest E. Roth Professor and chair of the Department of Industrial Engineering in the

Swanson school, will use the grant to address the potential of DC technology to positively impact the economy, the natural environment and the quality of life, especially for those at the lower end of the income spectrum.

DC technology fits into that project because it offers the promise of highly efficient, renewable, green, distributed power generation that can support economic growth and renewal. They explored this in a major international conference they organized in Prague in October 2013 on "Energizing Low-Income Communities."

Said Bidanda: "Practically speaking, we're looking to show people why it's important, and possible, to use DC power to improve the lives of people who are less fortunate. One of the ways we're going to do this is to establish DC-powered businesses — some here in Pittsburgh, especially Homewood, and others in India. We expect that both locations will greatly benefit from sharing locally developed technologies and applications."

Because most of our energy use is DC, it's much easier and less expensive to develop off-grid DC power storage on a local level, Bidanda said. For example, installing solar panels, storing some of that power in batteries, then using it to power a small village on DC could "really change the life of that village," he said. "It can be transformative. And even looking at long-distance transmission, it's beginning to become a more attractive alternative to AC."

Added Camillus: "DC is green.

DC benefits the environment. Local, renewable energy generation is naturally DC, not AC. And DC lighting and motors are vastly more efficient. There is enormous potential for businesses that take advantage of the economies and government incentives offered by DC. And shifting from AC to DC will be a rich source of new jobs that we intend to tap in Pittsburgh."

The three professors envision eventually installing a microgrid — a self-sufficient, geographically contained energy system — perhaps at a new housing development or a university campus. The grid would create electricity via solar panels, small wind turbines, fuel cells and gas-fired generators and store some of the power in batteries. The electricity would be delivered and used as DC, significantly reducing or even eliminating the need for conversion from AC to DC and thereby saving energy typically lost as heat in AC systems.

"We're not necessarily saying Edison was right," Reed said. "He wasn't in his time. But he is now."

Chemical biologist finds halogenation enzyme

Molecules containing carbon-halogen bonds are produced naturally across all kingdoms of life and constitute a large family of natural products with a broad range of biological activities. The presence of halogen substituents (molecules in which certain atoms have been replaced) in many bio-

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2014 Ampco-Pittsburgh Prize Winners
Jane Wallace (left) and Katherine Wolfe

Nominate an Outstanding Advisor for the Ampco-Pittsburgh Prize

From October 1 through October 31, 2014, the Kenneth P. Dietrich School of Arts and Sciences will accept nominations for the **Ampco-Pittsburgh Prize for Excellence in Advising**. This annual award recognizes outstanding faculty academic advising of Dietrich School undergraduate students. The winner receives a onetime cash award of \$4,000.

Eligibility

- ◆ Must be a Dietrich School of Arts and Sciences faculty member with a regular full-time appointment
- ◆ Must have been a departmental advisor for at least three years on the Pittsburgh campus
- ◆ Must receive nominations from the department chair and from two or more current or former undergraduate advisees

Nominations

- ◆ Faculty and students may submit nomination letters to Dietrich School of Arts and Sciences Associate Dean for Undergraduate Studies John A. Twyning at 140 Thackeray Hall.
- ◆ A letter from the chair of the department is required explaining the advising model used, the perspective on the nominee's advising appointment and caseload, and how the faculty member has demonstrated excellence in academic advising.
- ◆ A letter from at least two current or former undergraduate advisees is required describing how the faculty member's advice impacted the academic and career goals of the advisees.

Selection

The prize winner will be selected by the Dietrich School of Arts and Sciences Undergraduate Council and will be announced in spring 2015.

For more information, contact Z Taylor at eh3@pitt.edu or visit www.as.pitt.edu/teaching/ampco-pittsburgh-prize.

UNIVERSITY OF PITTSBURGH
The DIETRICH School of
Arts & Sciences

RESEARCH NOTES

CONTINUED FROM PAGE 12

active compounds has a profound influence on their molecular properties.

One of the Holy Grails in chemical science has been to find the late-stage, site-specific incorporation of a halogen atom into a complex natural product by replacing an sp^3 C-H bond (one of the most inert chemical bonds known in an organic compound) with a C-X bond, where X is a halogen. Until work was undertaken in the laboratory of Xinyu Liu, a chemistry faculty member in the Dietrich School of Arts and Sciences, there was no reliable synthetic or biological method known to be able to achieve this type of transformation.

In an article published online this month in *Nature Chemical Biology*, researchers led by Liu reported the discovery of the first enzyme that can accomplish this feat. It could find broad applications in pharmaceutical and agricultural industries, enabling medicinal chemists to tailor synthetic molecules with halogen substituents in order to improve their pharmacological profiles.

Liu and postdoctoral fellow Matthew Hillwig studied bacteria and demonstrated that the WelO5 protein is the first enzyme identified to have the capacity to mediate the regio- and stereospecific replacement of an aliphatic C-H bond to C-Cl bond on a freestanding small molecule. Specifically, they determined this by studying the biogenesis of hapalindole-type alkaloid wel-

witindolinones in stigonematalean cyanobacteria.

Their work also provided conclusive evidence to answer a longstanding question regarding the enzymatic origin of chlorine substitution in the biogenesis of hapalindole-type alkaloids in accordance with a proposal that was recently formulated by the Liu group.

It is expected that this discovery will present opportunities to evolve new catalysts for selective late-stage halogenations on unactivated carbons in complex molecular scaffolds.

Genetic discovery yields test for aggressive prostate cancer

A genetic discovery out of the School of Medicine is leading to a highly accurate test for aggressive prostate cancer and identifies new avenues for treatment.

The analysis, published in the *American Journal of Pathology*, found that prostate cancer patients who carry certain genetic mutations have a 91 percent chance of their cancer recurring. This research was funded by the National Institutes of Health (NIH), the American Cancer Society and the University of Pittsburgh Cancer Institute (UPCI).

Said researcher Jian-Hua Luo of the pathology faculty and UPCI: "Being able to say, with such certainty, that a patient is nearly guaranteed to see a recur-

rence of his prostate cancer means that doctors and patients can elect to be more aggressive in treating the cancer, knowing that the benefits likely outweigh the risks. Eventually, this could lead to a cure for prostate cancer through genetic therapy. With this discovery, we're at the tip of the iceberg in terms of possibilities for improving patient outcomes."

The American Cancer Society estimates that this year in the U.S. about 233,000 new cases of prostate cancer will be diagnosed. Despite the high incidence rate, only a fraction of men diagnosed with prostate cancer develop metastases, and even fewer men — 29,480 — will die of prostate cancer.

"In some cases, this can make the treatment more dangerous than the disease, so doctors need more accurate tests to tell them which patients would most benefit from aggressive therapies, such as surgery, radiation and chemotherapy," said Luo.

Luo and his team sequenced the entire genome of prostate tissue samples from five prostate cancer patients who experienced aggressive recurrence of their cancer and compared them to normal tissue samples from men without cancer.

In the patients with prostate cancer recurrence, they identified 76 genetic fusion transcripts, which are hybrid genes formed from two previously separate genes and often are associated with cancer. After further testing,

eight of the genetic fusion transcripts were found to be strongly associated with prostate cancer.

The researchers then screened for the eight fusion transcripts in 127 samples from patients with aggressive prostate cancer recurrence, 106 samples from prostate cancer patients with no recurrence at least five years after surgery, and 46 samples from prostate cancer patients with no recurrence less than five years after surgery. The samples came from UPMC, Stanford University Medical Center and University of Wisconsin Madison Medical Center.

In those samples, 91 percent with aggressive recurrence of their prostate cancer were positive for at least one of the fusion transcripts. Two of the fusion transcripts in particular were strongly associated with poor outcomes; none of the patients whose samples contained them survived to five years.

In contrast, 68 percent of patients whose samples did not contain at least one of the transcripts remained cancer-free.

Luo said if continued clinical trials of the test do well, it could be available to all prostate cancer patients in a few years.

In addition, studies are being developed to further investigate the genetic fusion transcripts most strongly associated with aggressive prostate cancer. Drugs and therapies could be developed to correct or stop the mutations, thereby halting the cancer progression.

Additional Pitt researchers on this study were Yan P. Yu, Ying Ding, Zhanghui Chen, Silvia

Liu, Amantha Michalopoulos, Riu Chen, Kathleen Cieply, Alyssa Luvison, Bao-Guo Ren, Joel B. Nelson, George Michalopoulos and George C. Tseng.

Researchers from Stanford and the University of Wisconsin also contributed.

New center for research on tech, media, health

Would celebratory music and a thousand "points" per pill encourage a patient with heart disease to take her medication? If social media friends congratulate an overweight person for skipping dessert, will it help him shed pounds?

Do song lyrics glorifying alcohol use inspire binge drinking in teens? Does continuous exposure to images of negative TV news footage influence depression or anxiety?

Brian A. Primack, assistant vice chancellor for health and society in the Schools of the Health Sciences, will direct the new Center for Research on Media, Technology and Health (CRMTH) to tackle questions like these across a broad range of disciplines.

Said Arthur S. Levine, senior vice chancellor for the health sciences and John and Gertrude Petersen Dean of the School of Medicine: "Technological innovation has proceeded so rapidly that youths ages 8-18 are now exposed to more than eight hours a day of electronic media messages outside of school. While these emerging

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University of Pittsburgh

Department of Chemical and Petroleum Engineering
Presents

Professor Jens K. Nørskov

Department of Chemical Engineering
and Photon Science, Stanford University

Jens Nørskov is professor of chemical engineering and photon science and director of the SUNCAT Center for Interface Science and Catalysis at Stanford University and SLAC National Accelerator Laboratory. Jens Nørskov received his PhD in theoretical physics at the University of Aarhus, Denmark in 1979. Following his PhD he was a research fellow, post doctoral researcher and staff scientist at several institutions including the Nordic Institute for Theoretical Physics, IBM T. J. Watson Research Center and Haldor Topsøe. In 1987 he joined the Technical University of Denmark as professor of physics. In 2010 he moved to Stanford University and SLAC National Accelerator Laboratory.

Jens Nørskov's research aims at developing theoretical methods and concepts to understand and predict properties of materials. He is particularly interested in surface chemical properties, heterogeneous catalysis, (photo-)electro-catalysis, and applications in energy conversion. Jens Nørskov has received a number of awards and honors, most recently the Michel Boudart Award for the Advancement of Catalysis. He holds honorary doctorates at the Technical University of Eindhoven and at the Norwegian University of Science and Technology, and is a member of the Royal Danish Academy of Science and Letters and the Danish Academy of Engineering.



2014 Bayer Distinguished Lecture

Catalysis for Sustainable Energy

Thursday, October 9, 5:00 pm (Reception follows)

102 Benedum Hall

Essentially all sustainable energy systems rely on the energy influx from the sun. In order to store solar energy it is most conveniently transformed into a chemical form, a fuel. The key to provide an efficient transformation of energy to a chemical form is the availability of suitable catalysts, and we will need to find new catalysts for a number of processes if we are to successfully synthesize fuels from sunlight. Insight into the way the catalysts work at the molecular level may prove essential to speed up the discovery process. The lecture will discuss some of the challenges to catalyst discovery, the associated challenges to science as well as some approaches to molecular level catalyst design. Specific examples will include the photo-electrochemical water splitting and carbon dioxide reduction reactions.

In Search of the Catalyst Genome

Friday, October 10, 9:30 am

102 Benedum Hall

The instructions for the catalytic properties of a material, sometimes termed the catalyst genome, ultimately lie in its electronic structure, which, in turn, is defined uniquely by the structure and composition of the material. The search for the catalyst genome is as old as heterogeneous catalysis science itself. Structure-function relationships have been studied extensively as has electronic structure calculations and spectroscopic data. The problem is that the link between (electronic) structure and catalytic function is extremely complex. I will discuss attempts to define suitable descriptors of catalytic activity and selectivity using processes of interest in energy conversion to illustrate the approach.

RESEARCH NOTES

CONTINUED FROM PAGE 13

exposures pose risks to health, they also may be leveraged to improve health.”

Said Primack, a faculty member in medicine, pediatrics and clinical and translational science in the School of Medicine: “Internet, social media, television, films, music and video games are all examples of media and technology that can affect our health and wellness. These exposures may have positive or negative influences, and educational and policy-related interventions may be effective at buffering negative influences and bolstering positive ones.”

CRMTH faculty and staff will collaborate with numerous schools and centers, including nursing, pharmacy, dental medicine, public health, health and rehabilitation sciences, social work and the Health Policy Institute.

In addition to performing research and developing and testing interventions, CRMTH will include an educational component for health sciences students about the impact of media and technology on health.

CRMTH is funded by NIH, the Agency for Healthcare Research and Quality, the ABMRF/The Alcohol Research Foundation, UPCI and the Health Policy Institute.

Vaccine proves effective against MERS virus

A vaccine developed by an

international team of scientists led by the School of Medicine successfully protects mice against a contagious and deadly virus spreading across the Middle East. The vaccine is a promising candidate for immunizing camels, thought to be the source of human infection.

Details of the new immunization against Middle East Respiratory Syndrome (MERS) were published online and will appear in an upcoming issue of *Vaccine*.

Said senior author **Andrea Gambotto**, a surgery faculty member: “MERS poses an emerging threat worldwide and has infected people in several Middle Eastern countries, with some unwittingly bringing the virus to other countries, including the U.S., through air travel.

However, scientists now believe that by vaccinating camels against MERS, we may be able to reduce transmission to humans and stave off the spread of this deadly virus.”

There have been 837 cases of MERS confirmed to date, including 291 deaths. According to the World Health Organization, symptoms include fever, cough and shortness of breath, with respiratory failure in severe illnesses. However, some people can be infected and show no symptoms, despite being contagious and spreading the virus to others.

Strains of MERS that match human strains have been isolated from camels in the Middle Eastern countries where MERS is

spreading, where the animals are used for transportation and as a food source.

Gambotto and his colleagues created a vaccine that encodes for a characteristic protein found on the surface of the MERS virus. The vaccine primes the immune system to detect the protein and fight the virus.

The team injected mice with the vaccine and gave them boosters through the nose three weeks later. All the immunized mice had antibody responses against the MERS protein.

“Since this vaccine is effective in mice, we believe it warrants testing in camels so we can determine if they have a similar immune response,” said Gambotto. “If we can protect camels against MERS, we may make it so difficult for MERS to infect people that its threat to the human population is significantly diminished.”

Additional Pitt authors on this research were **Eun Kim**, **Kaori Okada** and **Tom Kenniston**. Also contributing were researchers from the Erasmus Medical Center Rotterdam in the Netherlands, the Supreme Council of Health in Qatar and the Ministry of Environment in Qatar.

New concussion test created here

Researchers at the University and UPMC have created a new, 5- to 10-minute test that could be added to a clinician’s concussion evaluation toolkit for a more

comprehensive assessment of the injury.

In a recent study published online by the *American Journal of Sports Medicine*, researchers from the UPMC sports medicine concussion program demonstrated that clinicians could use their novel vestibular/ocular motor screening (VOMS) examination to be 90 percent accurate in identifying patients with concussion.

The VOMS, which requires such minimal equipment as a tape measure and a metronome, was shown to be a valid and consistent tool to enhance the current multidisciplinary approaches to concussion assessment that include clinical examination, symptom evaluation and computerized neurocognitive testing.

Previous research conducted at UPMC identified the vestibular ocular system — responsible for integrating vision, balance and movement — as being the most predictive of longer outcomes from sports-related concussions.

However, the researchers reported, most current evaluation and management tools for vestibular issues focus on balance, potentially missing important pieces of the concussion puzzle. In fact, the sideline assessment of concussion (SAC), sport concussion assessment tool-3 (SCAT-3), balance error scoring system (BESS), and similar tests fail to both comprehensively evaluate the vestibular system and measure ocular-motor dysfunction, researchers found.

Said principal investigator **Anne Mucha**, adjunct instructor in the School of Health

The University Times Research Notes column reports on funding awarded to Pitt researchers and on findings arising from University research.


We welcome submissions from all areas of the University. Submit information via email to: utimes@pitt.edu, by fax to 412/624-4579 or by campus mail to 308 Bellefield Hall.

For submission guidelines, visit www.utimes.pitt.edu/?page_id=6807.

and Rehabilitation Sciences and concussion program clinical coordinator for vestibular therapy: “We were afraid that important findings were being missed in many patients following their concussion because we just didn’t have the right tool to measure this part of the injury. Current assessments clearly weren’t sufficient in identifying most of the dizziness and visual problems that we commonly see in our patients.”

The researchers studied 64 concussed patients approximately five days post-injury and 78 healthy control-group patients who were administered VOMS by trained clinicians. The VOMS, which was developed in conjunction with a multi-disciplinary team from UPMC, assesses five areas of the vestibular ocular system: smooth pursuits, saccades (rapid eye movement), horizontal vestibular ocular reflex, visual motion sensitivity and near-point-of-convergence distance.

CONTINUED ON PAGE 15





University of Pittsburgh

SCIENCE 2014

SUSTAIN — IT! —

Wednesday, 1 October
– Friday, 3 October

MICHAEL G. WELLS
ENTREPRENEURIAL SCHOLARS LECTURE

The Entrepreneurial Journey

KEYNOTE SPEAKER:
RUDY MAZZOCCHI, CEO, ELENZA, Inc.


Wednesday, October 1
4 pm

ALUMNI HALL
Science Lecture Hall, 3rd floor

Rudy Mazzocchi has over 25 years of start-up, senior management, and financing experience in the medical devices industry. He currently serves as President/Chief Executive Officer of ELENZA, Inc., an early-stage ophthalmology device company that is developing an Electro-active Autofocusing Intraocular Lens. He previously served as Managing Director with Accuitive Medical Ventures and The Innovation Factory (Atlanta, GA) and CEO of Image-Guided NEUROLOGICS (Melbourne, FL), an early stage neurosurgical device company acquired by Medtronic in 2005. He was former Chairman and Interim-CEO of Triton BioSystems, a company developing a nanotechnology based approach to cancer therapy, which then merged with Oncologics of Berkeley, CA to form Aduro Biotech, and was also founding President and CEO of MICROVENA, an interventional medical device company that became the publicly-traded entity known as “eV3” which was recently acquired by the Covidien Corporation.

In addition, Mr. Mazzocchi concurrently serves as Executive Chairman of Vascular Pathways (Delray Beach, FL), Chairman of Q-Sensei (a European-based Internet data engine technology), Chairman of OptiSTENT (Viera, FL), and an advisor to the Boards of two other private healthcare companies. He has also previously served as a co-founding Chairman or Director of several other start-up biomedical companies including Vascular Science (acquired by St. Jude Medical), CytoGenesis (an embryonic stem-cell company acquired by BresaGen Ltd. of Australia), NexGen Medical Systems (a neurovascular device company in Reno, Nevada), and TGS Innovations (an Orthopedic device company recently merged with Cayenne Medical in Scottsdale, AZ).

As a recipient of the Technology Leadership Award, the 2005 Ernst & Young Entrepreneur of the Year Award in Healthcare, and 2013 Global Entrepreneur of the Year Award, Mr. Mazzocchi has authored numerous publications (both fiction and non-fiction) as well as over 50 patents in the field of medical technology.



Rudy Mazzocchi, CEO, ELENZA, Inc.

RESEARCH NOTES

CONTINUED FROM PAGE 14

Said **Anthony Kontos**, concussion program assistant research director and senior investigator: “The results from the current study indicated that more than 60 percent of patients experienced symptoms following the VOMS, and these are patients whose impairments might have been missed without a tool like it.”

Other co-authors were **Joseph Furman** of Pitt and researchers from Duquesne University, the University of Arkansas and the UPMC concussion program.

The study was supported in part by a grant from the National Institute on Deafness and Other Communication Disorders.

PCPs accepting of model to improve diabetes care

Nurses certified in diabetes education can be integrated successfully into primary care physician offices in an effort to improve the health of people with diabetes, according to a Graduate School of Public Health evaluation funded by the American Diabetes Association.

The determination was made following enrollment and initiation of the REdesigning MEDication Intensification Effectiveness Study for Diabetes (REMEDIES 4D), an ongoing trial to assess the effectiveness of certified diabetes educators in managing diabetes. The research was published in *Contemporary Clinical Trials*.

Said principal investigator **Janice Zgibor**, epidemiology faculty member in public health: “The vast majority of people with diabetes are seen by primary care physicians who have increasingly limited time to address the complexities of each patient’s care. A new model of care is necessary to best treat the growing number of people with diabetes.”

The REMEDIES 4D trial included 240 participants from 15 UPMC primary care practices, consisting of 57 physicians and two physician assistants. Eight of the practices were randomly assigned to receive a certified diabetes educator who provided treatment for glucose, blood pressure and cholesterol control, diabetes education and follow-up to patients. The remaining practices served as a control group and proceeded with their usual care.

A certified diabetes educator is a trained nurse who meets with diabetic patients and reviews their test results and medications, as well as their efforts to control diabetes through lifestyle changes. This nurse is certified to make therapeutic adjustments, such as changing medications when needed. She or he also can educate the patient about managing diabetes and help with emotional issues, such as fear of needles or diabetes-related depression.

“The certified diabetes educator’s main focus is staying on top of managing patients’ diabetes,” said Zgibor. “This could help prevent long-term diabetes complications, such as blindness and amputation, because the certified diabetes educator may be able to address care issues faster than the physician.”

Although the clinical trial pays for the cost of the certified

diabetes educator provided to participating practices, Zgibor said there are ways to make the cost less of a burden to other practices interested in implementing the model, such as sharing a certified diabetes educator or completing requirements for insurance reimbursement.

The REMEDIES 4D trial will include an economic evaluation to determine the cost-effectiveness of certified diabetes educators, both to primary care providers and society.

“In addition to helping patients, we’re finding that the presence of the certified diabetes educator in primary care practices also is a resource to physicians and office staff with diabetes-related questions,” said Zgibor. “So far, it seems like this model of diabetes care is well-received in primary care physicians’ offices. It will be interesting to see whether it proves to be a cost-effective way to manage the diabetes epidemic that is becoming an increasing burden on the U.S. health system.”

Additional Pitt researchers on

this study were **Shihchen Kuo**, **Patricia Gittinger**, **Debra Tilves** and **Maura Maloney**. Also contributing were researchers from UPMC and the Charles R. Drew University in Los Angeles.

Heart risk from fat shown to vary by race, ethnicity

A man’s likelihood of accumulating fat around his heart — an important indicator of heart disease risk — may be better determined if doctors consider his race and ethnicity, as well as where on his body he’s building up excess fat, reveals an international evaluation led by the Graduate School of Public Health.

The public health analysis could mean tailoring exercise regimens based on a man’s ethnicity.

The findings, published online in the *International Journal of Obesity*, indicate that it may be useful to take into account racial and ethnic differences when designing programs to reduce obesity because what works for

one man might not be as beneficial for another.

Said lead author **Samar R. El Khoudary**, faculty member in epidemiology: “If you are an African-American man and carry excess weight mainly around the mid-section, then you have a higher likelihood of more fat around the heart than if you gain weight fairly evenly throughout your body. But the reverse is true for Koreans — their heart disease risk is greater with overall weight gain. Knowing this can help doctors specify the right physical training for each racial ethnic group to reduce their heart disease risk.”

El Khoudary’s analysis relied on data from the “Electron-Beam Tomography, Risk Factor Assessment Among Japanese and U.S. Men in the Post-World War II Birth Cohort Study.” It is a population-based study of men enrolled between 2002 and 2006 who were ages 40-49 and free of cardiovascular disease, type-1 diabetes and other severe diseases at the time of enrollment.

The recent analysis took a closer look at 1,199 men in the study who were white or black

from Allegheny County, Japanese-Americans from Hawaii, Japanese and Koreans.

The study looked at the amount of fat around the heart called ectopic cardiovascular fat. Higher volumes of this fat are associated with greater risk of heart disease.

For white men, an increase in body mass index, or BMI, which is a measure of overall body fat, and abdominal fat are equally likely to indicate an increase in fat around the heart.


Black men who carry disproportionately more weight around their mid-section are at similar risk of having more fat around their hearts. Increases in BMI have lower impact.

Japanese and Japanese-American men also are at similar risk of having more fat around their hearts if they have more fat in their abdomens, with BMI having less of an impact.

Korean men with higher BMIs have a higher likelihood of fat around the heart, whereas abdominal fat matters less.

“What we now need to determine is whether concentrating

CONTINUED ON PAGE 16



The University of Pittsburgh

Chancellor's Distinguished Research, Public Service and Teaching Awards

Office of the Provost and Senior Vice Chancellor

Patricia E. Beeson
Provost
Senior Vice Chancellor

801 Cathedral of Learning
4200 Fifth Avenue
Pittsburgh, PA 15260
412-624-4223
Fax: 412-383-9640
beeson@pitt.edu

September 9, 2014

Dear Colleagues:

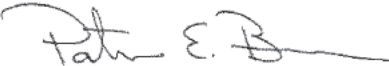
This year, the University of Pittsburgh will once again present the Chancellor's Distinguished Teaching, Research, and Public Service Awards to accomplished members of the University's faculty. These awards are designed to highlight exemplary teaching, research, and public service achievements.

I encourage you to nominate outstanding members of the University's faculty for these awards. Please note the nomination deadline for each award.

- Nominations for the **Chancellor's Distinguished Teaching Awards** should be sent electronically to Vice Provost for Faculty Development, Laurie Kirsch (lkirsch@pitt.edu). The closing date for letters of nomination is Friday, October 10, 2014. The guidelines for this award are available on the website for the Office of the Provost.
- Nominations for the **Chancellor's Distinguished Research Awards** should be sent electronically to Vice Provost for Research, Mark Redfern (mredfern@pitt.edu). The closing date for letters of nomination is Friday, October 24, 2014. The guidelines for this award are available on the website for the Office of the Provost.
- Nominations for the **Chancellor's Distinguished Public Service Awards** should be sent electronically to Vice Provost for Faculty Affairs, Carey Balaban (cbalaban@pitt.edu). The closing date for letters of nomination is Friday, October 10, 2014. The guidelines for this award are available on the website for the Office of the Provost.

Should you have any questions on how to proceed, please call Laurie Kirsch, Mark Redfern, or Carey Balaban as appropriate. In preparing your nomination, you also may wish to enlist (but need not) the help of the Office of the Dean in your school. We look forward to hearing from you.

Sincerely,



Patricia E. Beeson

RESEARCH NOTES

CONTINUED FROM PAGE 15

efforts to reduce overall body fat or fat in the abdomen will actually decrease fat around the heart more in people of certain racial or ethnic groups," said El Khoudary. "Such a long-term evaluation could help in designing race-specific heart disease prevention strategies."

Other Pitt researchers involved in the study included senior author and principal investigator **Akira Sekikawa** as well as **Emma Berinas-Mitchell**, **Aiman El-Saed**, **Rhobert W. Evans** and **Lewis H. Kuller**.

They were joined by colleagues from Korea University, the University of Hawaii, Shiga University of Medical Science in Japan, Los Angeles Biomedical Research Institute, Temple and Teikyo University School of Medicine in Japan.

This work was supported by NIH, the Korea Center for Disease Control and Prevention and the Japanese Ministry of Education, Culture Sports, Science and Technology.

Unusual immune cell targets oral thrush

An unusual kind of immune cell in the tongue appears to play a pivotal role in the prevention of thrush, according to researchers

at the School of Medicine, who discovered them.

The research findings, published online in the *Journal of Experimental Medicine*, might shed light on why people infected with HIV or who have other immune system impairments are more susceptible to the oral yeast infection.

Oral thrush is caused by an overgrowth of a normally present fungus called *Candida albicans*, which leads to painful white lesions in the mouth, noted senior investigator **Sarah L. Gaffen**, faculty member in rheumatology and clinical immunology. The infection is treatable, but is a common complication for people with HIV, transplant recipients who take drugs to suppress the immune system, chemotherapy patients and babies with immature immune systems.

Said Gaffen: "In previous work, we found the cytokine interleukin-17 (IL-17), a protein involved in immune regulation, must be present to prevent the development of thrush. But until now, we didn't know where the IL-17 was coming from."

Typically, IL-17 is produced by immune T-cells that learn to recognize and remove a foreign organism after an initial exposure,

known as adaptive immunity. But unlike humans, mice do not normally acquire *Candida* during birth and are considered immunologically naive to it.

When the researchers exposed the lab animals to *Candida*, their IL-17 levels rose within 24 hours despite the lack of a T-cell response. This suggested the immune activity was innate, rather than acquired.

To find the cell responsible for IL-17 secretion, the investigators devised a way of applying a scientific technique called flow cytometry to sort for the first time cells gathered from the oral tissues. In the tongue, they identified unusual cells known as natural TH17 cells that looked very much like T-cells but didn't behave like them. Subsequent tests showed that the novel cells did, indeed, make IL-17 when exposed to *Candida*.

"These cells are part of a natural host defense system that is present at birth and does not require a first exposure to be activated," said Gaffen. "This study demonstrates for the first time that natural TH17 cells protect against infection."

The researchers speculate that the similarities natural TH17 cells share with T-cells make them vul-

nerable to HIV, chemotherapy and other agents as well, which could explain why certain people are more susceptible to oral thrush. Also, new drugs that block IL-17 soon will be on the market for treatment of rheumatologic conditions, so it's possible that thrush could be a side effect.

The team plans to examine the factors that influence thrush development within the high-risk groups.

Co-authors of the paper included other researchers from the School of Medicine, Children's Hospital, the University of Pennsylvania, Genentech and the National Institute of Allergy and Infectious Diseases (NIAID).

The project was funded by NIH, Children's Hospital, the Pediatric Infectious Disease Society, the Edmond J. Safra Foundation/Cancer Research Institute and the NIAID.

Chemo + radiation not effective for vulvar cancer

The addition of chemotherapy to post-surgical radiation treatment is not effective in treating vulvar cancer, according to research presented at the 56th annual meeting of the American Society for Radiation Oncology.

Vulvar cancer is extremely rare, accounting for just 4 percent of gynecologic cancers and 0.6 percent of cancers women face in the United States each year.

Led by **Sushil Beriwal**, faculty member in the School of Medicine's Department of Radiation Oncology and a radiation oncologist at Magee, this study identified patients diagnosed with vulvar cancer between 1998 and 2011 who had undergone surgery to remove the cancer and required adjuvant radiation therapy because the disease had spread to their lymph nodes.

The study utilized the National Cancer Database, a nationwide oncology outcomes database, to identify 1,087 patients who underwent chemotherapy treatment in addition to radiation therapy after their initial surgery to remove the cancer. The study took into account factors including age, race, insurance coverage, tumor size and spread of the disease.

"Our study found that overall, the addition of chemotherapy to adjuvant radiation therapy did not improve patient survival," said Beriwal.

"While retrospective studies do impose some limits on our conclusion, we found that, at the very least, use of concurrent chemotherapy should be carefully evaluated on an individual basis."

While the study didn't confirm a benefit of the addition of adjuvant chemotherapy to treatment, Beriwal said it is important to share the findings because they move researchers one step closer to understanding how to treat vulvar cancer most effectively.

Technology created here headed to Mars

In 1979, **Sanford Asher** interviewed to join the chemistry department faculty. As is the practice, he gave a presentation regarding a particular bit of research he'd do if hired.

He was hired. And in 2020, the fruit of that presentation will be

on its way to Mars.

Asher, now a Distinguished Professor of Chemistry in the Dietrich School of Arts and Sciences, has seen his job-application idea, UV Raman spectroscopy — the use of ultraviolet light as a means to excite molecules in order to determine the basic components of a piece of matter — grow and become integral to science.

The technology will be a prime component of SHERLOC, an instrument that will be aboard NASA's Mars 2020 Rover when it lifts off.

"I've been working in this area for a long time," he says. "Most of the uses to this point have been biological; it's important to the detection of protein folding. I've been involved in all aspects of the science from laser development to theory development to building the first instrument."

Asher is a co-investigator on the SHERLOC instrument being built at NASA's Jet Propulsion Laboratory (JPL), which also is leading the Mars 2020 Rover project. Luther Beegle, research scientist and deputy manager of the planetary science section at JPL, is the principal investigator on the SHERLOC (Scanning Habitable Environments with Raman & Luminescence for Organics and Chemicals) project.

"Quite frankly, SHERLOC owes a very large amount of its selection [to be aboard the rover] to Dr. Asher's work," Beegle says. "He's the world's leading expert in the field and many of the technical and scientific questions we are going to address during the Mars 2020 operations come directly from his work."

SHERLOC, Beegle says, will shine a tiny dot of ultraviolet laser light at a target. This causes two different spectral phenomena to occur, which the instrument captures for analysis.

The first is a distinctive fluorescence, or glow, from molecules that contain rings of carbon atoms. Such molecules may be clues to whether evidence of past life has been preserved.

The second is an effect called Raman scattering, which can identify certain minerals, including ones formed from evaporation of salty water, and organic compounds. This dual use enables powerful analysis of many different compounds on the identical spot.

Beegle adds that Asher will play a valuable role in finetuning SHERLOC.

"And when we land, Dr. Asher will work with the entire 2020 science team to identify the types of minerals and organics we have detected so that we can better understand Martian history." ■

—Compiled by Marty Levine

Voter registration deadline nears

The deadline to register to vote is 5 p.m. on Monday, Oct. 6. If you need assistance with voter registration, or would like voter registration materials, go to www.votespa.com.

The deadline to apply for an absentee ballot is 5 p.m. on Tuesday, Oct. 28. ■

CHECK IT OFF

Your List

Student Opinion of Teaching Surveys take place between **November 17** through **December 7**.

TAKE THE FIRST STEPS.

1. Request your **survey**. Check omet.pitt.edu for "how to" information.
2. Talk with your students about the survey process and how much you value their feedback.
3. Schedule class time for students to complete the survey.

Questions?

Call 412-624-6440 or contact us at omet.pitt.edu.

OMET Office of Measurement and Evaluation of Teaching

PEOPLE OF THE TIMES

Bernhard Kühn, a physician-scientist whose research focuses on heart failure, has been named a scholar within the Richard King Mellon Foundation Institute for Pediatric Research and director of research for the Division of Cardiology at Children's Hospital. He also is associate professor of pediatrics at the School of Medicine.

Kühn is the third physician-scientist in the Mellon scholars program, which enables promising researchers in the early stages of their careers to pursue potential breakthrough research projects in biomedicine.

Kühn is a board-certified and practicing pediatric cardiologist whose research focuses on regenerative therapies for the heart. The long-term objective of his research is to provide novel approaches and molecular targets for the treatment of heart failure, primarily by studying the mechanisms of growth and regeneration of the myocardium, the muscle tissue of the heart.

Kühn earned his medical and doctoral degrees from Freie Universität Berlin in Germany. He completed his post-doctoral fellowship at Boston Children's Hospital, where he established an independent research lab in 2005.

In a landmark paper published in *Cell*, Kühn showed that heart muscle cells, previously thought to be incapable of proliferating, could be induced to divide with the growth factor neuregulin1. This research has opened up the possibility of using this growth factor to stimulate heart regeneration. In a follow-up study published in the *Proceedings of the National Academy of Sciences*, the Kühn lab showed that in humans, heart muscle cell proliferation is

The People of the Times column features recent news on faculty and staff, including awards and other honors, accomplishments and administrative appointments.

We welcome submissions from all areas of the University. Send information via email to: utimes@pitt.edu, by fax at 412/624-4579 or by campus mail to 308 Bellefield Hall.

For submission guidelines, visit www.utimes.pitt.edu/?page_id=6807.

a mechanism of heart growth in infants and children. Together, these two papers provide the foundation for administering the growth factor to stimulate heart regeneration in pediatric patients with heart failure.

Mellon scholars are selected on the basis of work that is highly innovative, delivering new expertise to the biomedical research community; likely to lead to major breakthroughs, and capable of having a long-lasting impact on the practice of medicine.

Stephen Maricich and Timothy Sanders were the first two physician-scientists recruited for the Mellon scholars program.

Established through a gift from the Richard King Mellon Foundation, the institute is an incubator for research that challenges conventional wisdom and can lead to paradigm shifts in pediatric medicine. This kind of high-risk, high-impact investigation is not typically funded through government or conventional sources, placing Children's Hospital in a unique group of pediatric research centers. Kolls' goal is to recruit a total of five scholars.

Located within the John G. Rangos Sr. Research Center on Children's main campus, the institute's faculty and programs are part of the School of Medicine.

At its opening meeting for the year, the Pitt-Bradford Staff

Association presented **Sharie Radzavich** with the Staff Appreciation Award.

The Katz Graduate School of Business has given its 2014 JoAnn Hartz Excellence in Administrative Support Award to **Charmaine Evans** and **Nicole Hudson**. The award recognizes outstanding administrative assistants who go above and beyond expectations in performing daily work.

Dental medicine's **Paul Moore** is this year's recipient of the Norton M. Ross Award for Excellence in Clinical Research from the American Dental Association.

The Ross award recognizes an individual who has made significant contributions in clinical investigations that advance diagnosis, treatment and prevention of craniofacial, oral and dental diseases.

The Association of Yale Alumni will honor Pitt law faculty member and Yale alumnus **Michael J. Madison** with the 2014 Yale Medal in November.

Inaugurated in 1952, the Yale Medal is the highest award presented by the Association of Yale Alumni and is conferred solely to recognize and honor outstanding individual service to Yale University.

Yale News indicated that Mad-

ison "has shown exceptional commitment to Yale. He has brought endless time, passion and insight to his Yale volunteer activities. He has been active in a range of Yale volunteer endeavors, in leadership roles in clubs in San Francisco, Silicon Valley and Pittsburgh; as reunion co-chair for his class, and as an inspiring leader of the AYA Board of Governors."

Donna Nativio has been named a fellow of the American Association of Nurse Practitioners. The fellows program recognizes those nurse practitioner leaders who have made outstanding contributions to health care through clinical practice, research, education or policy.

Nativio is a faculty member in the School of Nursing and has been a certified pediatric nurse practitioner since 1968. In addition to her role as director of the school's Doctor of Nursing Practice program, she also is the coordinator of four of the nurse practitioner areas of concentration. She has been recognized for her pioneering work and leadership in the nurse practitioner movement and was honored as the Nurse of the Year by the

Pennsylvania Nurses Association, the Nurse Practitioner of the Year by the American Nurses Association, and as an outstanding alumna by the University of Pittsburgh's School of Nursing.

Nursing faculty member **Elizabeth LaRue** has been selected for a Fulbright Award to Malawi.



LaRue will be creating and teaching introductory nursing informatics courses and seminars as well as developing new teleconferencing

informatics curricula at the University of Malawi Kamuzu College of Nursing to train nursing and midwifery students in Zimbabwe, Zambia and Malawi.

LaRue is the coordinator for the nursing informatics concentration in the MSN program.

Social work's **Valire Carr Copeland**, associate dean for academic affairs, has been appointed to the editorial board of *Health and Social Work*, a journal of the National Association of Social Workers.



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**PROVOST'S AWARD for
EXCELLENCE in MENTORING**

Nominations due October 24, 2014

Nominations are being solicited for the Provost's Award for Excellence in Mentoring. The tenth annual award serves to acknowledge graduate faculty members for excellence in the mentoring of doctoral students. Up to four awards will be made. Each award will consist of a cash prize to the faculty member of **\$2,500**, and the recipients will be honored publicly.

Eligibility: Any current, active graduate faculty member who supervises graduate students pursuing PhD degrees or other research doctoral degrees, such as the EdD or the DrPH, and who has graduated and placed five or more doctoral students is eligible to be nominated.

Nominations: Written nominations may be made by any individual or group of faculty, graduate students, or alumni who have evidence of the nominee's mentoring capabilities. For more information about the nomination process and the award itself, please see the award guidelines online at www.pitt.edu/~graduate/maguidelines.pdf.

The deadline for receipt of nomination letters is **October 24, 2014**. Letters should be sent to: **Dr. Alberta M. Sbragia, Office of the Provost, 801 Cathedral of Learning, Pittsburgh, PA 15260.**



University of Pittsburgh

The Marshall S. Levy, MD, Memorial Lecture

presents



Iain McInnes, PhD

Muirhead Chair of Medicine & Director of Institute of Infection, Immunity and Inflammation

University of Glasgow

“Micro Molecules with Macro Effects in Rheumatology”

Friday, October 10, 2014, at 9:00 a.m.

UPMC Presbyterian, Scaife 1105 AB

RSVP to Hilary Peterson at hjp4@pitt.edu or (412) 383-8100

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Nash Distinguished Lecture
in Quantitative Finance

Systemic Risk and the Risk Management Paradox

by Paul Glasserman

Monday, October 6, 2014, 4:30 p.m.
McConomy Auditorium

Reception immediately following the lecture

Carnegie Mellon University

FREE AND OPEN TO THE PUBLIC

CALENDAR

CONTINUED FROM PAGE 20

Johnstown Campus Blue & Gold Golf Classic

Sunnehanna Country Club, 11 am-6 pm (www.upj.pitt.edu/en/Alumni/blue-and-gold-golf-classic)

Science 2014 Mellon Lecture

“Bringing Genetics & Epigenetics to the Fetal-Adult Hemoglobin Switch,” Stuart Orkin, Harvard; Alumni, 11 am (www.science2014.pitt.edu)

Science 2014 Klaus Hofmann Lecture

“X-Chromosome Inactivation as a Model for Epigenetic Regulation by Long Noncoding RNA,” Jeannie Lee, Harvard; Alumni, 2 pm (www.science2014.pitt.edu)

Music on the Edge

“Meridian Arts”; Bellefield aud., 8 pm (4-7529)

Wednesday 8

Hepatology Rounds

“Pharmacology Related to the Liver & Biliary Tract,” Raman Venkataramanan; E724 Montefiore; 7 am
Faculty & Staff Development Program

“Working Through Conflict,” Maureen Lazar, 342 Craig, 9-11 am (www.hr.pitt.edu/fsdp)

CRSP Lecture

“On the Run: Fugitive Life in an American City,” Alice Goffman, U of WI-Madison; 2017 CL, noon (4-7382)

MMG Seminar

Micah Luftig, Duke; 503 Bridgeside Pt. II, noon

Oral & Maxillofacial Lecture

“Cosmetic Surgery: Facelift/Rhytidectomy,” Peter Demas; G-33 Salk, 4 pm

Saturday 4

Greensburg Campus 5K Run/Fun Walk

150 Finoli Drive, UPG, 7 am (register: www.greensburg.pitt.edu/blueandgoldweekend/5k)

Bradford Campus Book Sale

UPB, noon-3 pm

Bradford Campus Wild & Scenic Film Festival

Bromeley Theater, UPB, noon-4 pm (robar@pitt.edu)

Sunday 5

Pitt Choirs Showcase

Bellefield aud., 4 pm

Monday 6

Flu Shot Clinic

102 Benedum, 10 am-2 pm

CIDDE TA Workshop

“The Role of the TA”; G74 Hillman, 11 am (www.cidde.pitt.edu/workshops)

HSLs Workshop

“Undead PubMed,” Rebecca Abromitis; Falk Library classrm. 1, noon (baa@pitt.edu)

Chemistry Seminar

Joel Harris, U of UT; 150 Chevron, 4 pm

Tuesday 7

Faculty & Staff Development Programs

“Make IT Work for You,” Vernon Franklin, 302 Bellefield; “Introduction to the Office of International Services & Basic Concepts in the U.S. Immigration Law,” Claire Mokry & Melissa Reinert, 342 Craig, 9-11 am (www.hr.pitt.edu/fsdp)

CIDDE TA Workshop

“Developing a Teaching Philosophy Statement”; G74 Hillman, 10 am (www.cidde.pitt.edu/workshops)

Mechanicsburg Flu Shot Clinic

1st fl. computer rm. 2, noon-2 pm

Philosophy of Science Talk

“Explanation & Partiality in Cognitive Science,” Maria Serban, U of East Anglia; 817R CL, 12:05 pm (4-1052)

Faculty Assembly Mtg.

2700 Posvar, 3 pm

Pharmacology & Chemical Biology Seminar

“Signaling Mechanisms of Tumor Suppressor Folliculin,” Yu Jiang; 1395 BST, 3:30 pm (mmclain@pitt.edu)

Thursday 9

IEE Workshop

“Uncommon Thread: A Woman, a Brand & a Legacy,” Mary Bitzer; Duquesne Club, Downtown, 7:30-10:30 am (iee@katz.pitt.edu)

Faculty & Staff Development Program

“Student Privacy & FERPA,” Pamela Connelly & Patricia Mathay; 342 Craig, 9 am (www.hr.pitt.edu/fsdp)

CIDDE Workshops

“Multimedia Teaching & Learning,” B26 Alumni, 10 am; “TA: Developing a Lesson Plan,” G74 Hillman, 2 pm (www.cidde.pitt.edu/workshops)

Molecular Biophysics/Structural Biology Seminar

Maria Kurnikova, CMU; 6014 BST3, 11 am

Immunology Seminar

“Regulation of TLR Signaling & Inflammation by Ubiquitination,” Shao-Cong Sun, Scaife aud. 5, noon (ericksn@pitt.edu)

Public Health Lecture

“Sexual Health & Adolescent Girls: A Vulnerable Population for Public Health Intervention,” Maria Trent, Johns Hopkins; public health aud., noon

Bradford Campus Filmmaker Talk

Sam Zalutsky, Mukaiyama U Rm. Frame-Westerberg Commons, UPB, noon

Chemistry Seminars

“Solvation Dynamics & Vibrational Spectroscopy in Ionic Liquids,” Steven Corcelli, U of Notre Dame, 2:30 pm; “Selective & Promiscuous Targeting of Protein Kinases With Tunable Electrophilic Inhibitors,” Jack Taunton, UC-San Francisco, 4 pm; 150 Chevron

Geology & Planetary Science Colloquium

Louis Derry, Cornell; 11 Thaw, 3:50 pm

Chemical & Petroleum Engineering Lecture

“Catalysis for Sustainable Energy,” Jens Nørskov, Stanford; 102 Benedum, 5 pm

Defenses

Medicine/Clinical & Translational Science

“Medication Use & Falls in Older Adults: A Pharmacoepidemiologic Approach,” Zachary Marcum; Sept. 26, 220 Parkvale, 11 am

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CALENDAR

CONTINUED FROM PAGE 18

A&S/English

"Twilight States: Sleepwalking, Liminal Consciousness & Sensational Selfhood in Victorian Literature & Culture," Rebecca Wigginton; Sept. 29, 602 CL, 11 am

Medicine/Molecular Genetics & Developmental Biology

"Preserving Male Fertility With Spermatogonial Stem Cells," Hanna Valli; Sept. 30, MWRI 1st fl. conf. ctr., 9 am

SHRS/Communication Science & Disorders

"2f2-f2 DPOAE Sources in Contradiction to the Two-Source/Two-Mechanism Model," Jennifer Horn; Sept. 30, 4065 Forbes Twr., 1 pm

Theatre

Theatre Arts Production

"Stop Kiss"; Oct. 2-12, Henry Heymann Theatre, T-Sat 8 pm, Sun 2 pm (www.play.pitt.edu/content/stop-kiss)

PICT Production

"Macbeth"; Charity Randall Theatre, Oct. 8-25 (times: www.pict-theatre.org/plays-events/2014-season/macbeth/)

Exhibits

University Art Gallery

"Configuring Disciplines: Fragments of an Encyclopedia"; through

Oct. 5, FFA Gallery, M-Th 9 am-9 pm, F 9 am-5 pm, Sat noon-5 pm, Sun noon-7 pm

Barco Law Library

"Botany in Black & White" by Tim Anderson; through Nov. 7, M-Th 7:30 am-10 pm, F 7:30 am-5 pm, Sat 10 am-6 pm, Sun noon-8 pm (8-1376)

Jewish Studies Exhibit

"Jewish Refugees in Shanghai (1933-1941)"; through Oct. 15, Hillel Jewish U Ctr., 4607 Forbes Ave., (www.ucis.pitt.edu/cipitt)

Falk Library Exhibit

"And There's the Humor of It: Shakespeare & the Four Humors"; Sept. 29-Nov. 8, M-Th 7am-mid., F 7 am-10 pm, Sat 9:30 am-10 pm, Sun 9:30 am-mid.

Deadlines

Chancellor's Distinguished Teaching Awards

Nominations due Oct. 10. (lkirsch@pitt.edu)

Chancellor's Distinguished Public Service Awards

Nominations due Oct. 10. (cbalaban@pitt.edu)

Chancellor's Distinguished Research Awards

Nominations due Oct. 24. (mredfern@pitt.edu)

Provost's Excellence in Mentoring Award

Nominations due Oct. 24. (www.pitt.edu/~graduate/maguidelines.pdf)

[pitt.edu/~graduate/maguidelines.pdf](http://www.pitt.edu/~graduate/maguidelines.pdf))

Chancellor's Award for Staff for Excellence in Service to the Community

Nominations due Oct. 24. (www.hr.pitt.edu/chancellors-award-community)

Chancellor's Award for Staff for Excellence in Service to the University

Nominations due Oct. 24. (www.hr.pitt.edu/chancellors-award-university)

Engineering Sustainability 2015 Call for Abstracts

Submission deadline is Oct. 27. (<http://eswprepage.com/ESCFP.aspx>)

Ampco-Pittsburgh Prize for Excellence in Advising Award

Submit nominations to 140 Thackeray by Oct. 31. (taylor@as.pitt.edu)

A&S Bellet Teaching Excellence Awards

Submit nominations to 140 Thackeray by Oct. 31. (clynch@as.pitt.edu)

Coulter TPII Awards for Translational Research

Letter of intent due Nov. 3. (coulter1@pitt.edu)

Basic to Clinical Collaborative Research Pilot Program

Submission deadline is Dec. 15. (lld34@pitt.edu)

CLASSIFIED

• \$8 for up to 15 words; \$9 for 16-30 words; \$10 for 31-50 words.

• For University ads, submit an account number for transfer of funds.

• All other ads should be accompanied by a check for the full amount made payable to the University of Pittsburgh.

• Reserve space by submitting ad copy one week prior to publication. Copy and payment should be sent to University Times, 308 Bellefield Hall, University of Pittsburgh, Pittsburgh 15260.

• For more information, call Barbara DelRaso, 412/624-4644.

BLACKRIDGE-WILKINSBURG

1445 Cresson St. 3-BR, 1-bath townhouse. Includes LR, DR, fully equipped kitchen, full laundry inc. W/D, w/w carpet, private porch. No pets. \$900/mo. + utilities. Private parking. Credit check required. Available Oct. 1. Call 412/973-4347 or 412/243-8722.

HOUSING/SALE

SOUTHERN NEW HAMPSHIRE

Perfect for vacation/retirement. Historic 10-room house + 2-story barn on 4.5 acres. Easy access to Boston, ski resorts, hiking/biking trails. \$284,900. Carol Slocum, Masiello Real Estate: 855/230-9714. For photos, go to http://www.realtor.com/realstateandhomes-detail/753-Route-12A_Surry_NH_03431_M31820-16773?source=web.

SHOPPING

TOP NOTCH SHOPPING

For unique gifts for you & yours! Minerva Market, Wed., Oct. 1, 10:30-1:30. Showcase for gorgeous original designs in jewelry, accessories, gifts, art, wellness products & more. Free admission to explore this Art Deco landmark! Lunch \$25. Twentieth Century Club, 4201 Bigelow at Parkman, near Soldiers & Sailors. Details & lunch reservations: 412/621-2353. www.twentiethcenturyclub.com.

FOR SALE

BIKES

2 unisex TREK road & trail comfort bikes, 14.5" & 16.5" frames, great condition. \$150 each or best offer. Contact Autumn at fawkes72@yahoo.com for photos & more info.

FURNITURE

Ethan Allen, solid wood coffee table. 16" high, 53" long, 22" wide. Very good condition. \$40. 412/683-6561

HOUSING/RENT

SOUTH OAKLAND

Available immediately. 4-BR townhouse on Semple St. New kitchen & freshly painted. Call 412/983-5893 for details.

Shakespeare and the four humors exhibit at

FALK LIBRARY

3550 Terrace St
Pittsburgh PA 15261

September 29 – November 8

"And there's the humor of it"
Shakespeare and the four humors

William Shakespeare and the Four Humors: Elizabethan Medical Beliefs
Gail Kern Paster, Ph.D., Director emerita, Folger Shakespeare Library

Thursday, October 2, 2014 at 6 p.m.
1105 Scaife Hall

Visit exhibit in Falk Library following lecture, 200 Scaife Hall

A Clinician Looks at Shakespeare and Medicine
Robin Maier, M.D., M.A., Director of Medical Student Education/Clerkship Director, Department of Family Medicine, University of Pittsburgh

Tuesday, October 21, 2014 at 6 p.m.
Lecture Room 5 (Scaife Hall 4th floor)

www.hsls.pitt.edu/shakespeare

UNIVERSITY OF PITTSBURGH
stages

OCT 2-12

STOP KISS

WRITTEN BY DIANA SON
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CALENDAR

September

Thursday 25

Structural Biology Seminar
“Structural Dynamics of Gating in Cys-loop Receptors,” Sudha Chakrapani, Case Western; 6014 BST3, 11 am

SAC Seminar
“Ergonomics,” Rick Schultz, safety & training; WPU Assembly Rm., noon

CTSI Lecture
“Detecting, Addressing & Preventing Scientific Misconduct,” Karen Schmidt; 7039 Forbes Twr., noon

Epidemiology Seminar
“On the Move: Group-based Exercise for Community-dwelling Older Adults,” Jennifer Brach; public health aud., noon

CIDDE TA Workshops
“Developing a Teaching Philosophy Statement,” 2 pm; “Cheating & Plagiarism,” 3 pm; 815 Alumni (www.cidde.pitt.edu/workshops)

Chemistry Seminar
“2-Dimensional Layered Materials,” Xiangfeng Duan, UCLA; 150 Chevron, 2:30 pm

Geology & Planetary Science Colloquium
“National Risk Assessment Partnership,” Grant Bromhall, Nat'l Energy Technology Lab; 11 Thaw, 3:50 pm

UPPDA Picnic
Veteran's Pavilion, Schenley Park, 5-8 pm (oacd@hs.pitt.edu)

Contemporary Writers Lecture
Lucie Brock-Broido; FFA aud., 8:30 pm (www.pghwritersseries.wordpress.com)

Friday 26

UPMC Drug Collection
Turn in unused, unwanted and expired medications; Children's, Falk Pharmacy, Presby 1st fl. prescription shop, Magee lobby & Hillman Cancer Ctr. gr. fl. atrium, 10 am-2 pm

CIDDE CourseWeb Workshops
“Communication Tools,” 10 am; “Using the Grade Center,” 1:30 pm; B26 Alumni (www.cidde.pitt.edu/workshops)

Psychiatry Lecture
“High Definition Fiber Tracking (HDFT) an MRI Biomarker for Brain Anatomical Connection Disorders in TBI, Neurosurgery & Autism,” Walter Schneider, WPIC aud., noon

Emerging Legends Concert
Susanne Ortner-Roberts & Mark Strickland; Cup & Chaucer, gr. fl. Hillman, noon

Philosophy of Science Lecture
“Strategies for Dealing With Biological Complexity,” Sara Green, U of Aarhus; 817R CL, 12:05 pm (4-1052)

HSLs Workshop
“Prezi for Presentations,” Julia Dahm; Falk Library classrm. 2, 12:30 pm (dahm@pitt.edu)

Hispanic Languages & Literatures Lecture
“Cuerpos que no salen en la foto: Ciudadanías blanqueadas en laparodocraia Venezolana (Siglo XIX),” Beatriz Stephan; 501 CL, 4 pm

Saturday 27

Football
Vs. Akron; Heinz Field, 1:30 pm

Sunday 28

Episcopal Service
Heinz Chapel, 11 am (Sundays: pittepiscopalchaplancy.wordpress.com)

Organ Recital
Duquesne U students; Heinz Chapel, 3 pm

Bradford Campus Concert
Southern Tier Symphony; Bromley Theater, UPB, 3 pm

Monday 29

CIDDE TA Workshop
“Syllabus Construction”; 815 Alumni, 2 pm (www.cidde.pitt.edu/workshops)

CTSI Lecture
“You Do WHAT With Your Data?” Melissa Ratajeski; 7039 Forbes Twr., 3 pm

Tuesday 30

Basic & Translational Research Seminar
“Secreted Hsp90 in Tumor Progression: Trifecta of Signaling, Epigenetic Regulation & Stromal Activation,” Jennifer Issacs, USC; Hillman Cancer Ctr. Cooper conf. rm. D, noon (toyg@upmc.edu)

MMR Seminar
“Molecular & Systems Biology Computations for Quantitative Pharmacology,” Ivet Bahar; Rangos aud., noon (linda.cherok@chp.edu)

SAC Schenley Park Walk
With Pgh Park Conservancy naturalist educator; meet at Schenley Park Café/Visitor Ctr, noon-1 pm (register: https://docs.google.com/forms/d/1fBDyYaiqxoKuOfQnzI20Pqx1NfaZokkxw4xZ55nkVoM/viewform)

Philosophy of Science Talk
“Homonegativity & the Medicalization of Homosexuality,” Andreas de Block, U of Leuven; 817R CL, 12:05 pm (4-1052)

CIDDE TA Workshop
“Developing a Teaching Portfolio”; 815 Alumni, 2 pm (www.cidde.pitt.edu/workshops)

Greensburg Campus Written/Spoken Readings
Sarah Shotland & Sheila Squillante; Chambers, UPG, 7 pm

Science 2014 Michael G. Wells Entrepreneurial Scholars Lecture
“The Entrepreneurial Journey,” Rudy Mazzocchi, Elenza; Alumni 3rd fl., 4 pm (www.science2014.pitt.edu)

Gastroenterology/Hepatology Grand Rounds
“Case Presentations,” Swaytha Ganesh & Anthony Razzak; 1104 Scaife, 5 pm (joj2@pitt.edu)

Thursday 2

United Way Day of Caring
Various locations, 9 am-4 pm, buses board at 8 am on Bigelow side of Soldiers & Sailors (Register: www.unitedway.pitt.edu/dayofcaring/index.php)

Gender, Sexuality & Women's Studies Event
“The Dynamic Development of Gender Variability,” Anne Fausto-Sterling, 1001-B CL, 10 am; “Sex/Gender: Biology in a Social World,” book discussion, 337 CL, 1 pm; “How Your Generic Baby Acquires Gender: A Dynamic Systems Approach,” U Club ballrm. A, 4 pm (www.gsws.pitt.edu)

Science 2014 Dickson Prize in Medicine Lecture
“A Microbial View of Human Development: The Gut Microbiota & Childhood Undernutrition,” Jeffrey Gordon, WA U-St. Louis; Alumni, 11 am (www.science2014.pitt.edu)

Epidemiology Seminar
“Epi in Action! Internship Poster Session”; public health commons area, noon

October

Wednesday 1

• Science 2014 runs through Oct. 3; see pages 10 & 11 for complete schedule. (www.science2014.pitt.edu)

Clinical Oncology & Hematology Grand Rounds
“Compliance Update,” Frank Czura, Kyle Shaffer & Linn Swanson; UPMC Cancer Pavilion Herberman aud., 8 am (millerc5@upmc.edu)

Faculty & Staff Development Program
“Family & Medical Leave Act,” Jane Volk, Cheryl Ruffin & Aynsley Jimenez; 342 Craig, 9-11 am (www.hr.pitt.edu/fsdp)

Bradford Campus Flu Shot Clinic
Frame-Westerberg conf. rm. A & B, UPB, 11 am-2 pm

MMG Seminar
Jay Chung, NIH; 503 Bridgeside Pt. II, noon

Dental Medicine Clinical Research Lecture
“Biological Basis & Current Clinical Protocols of Regenerative Endodontic Therapy,” Raquel Braga; 458 Salk, noon

Science 2014 Career Symposium
“Exploring Your Passions & Recognizing Your Potential,” Jon Kowalski; U Club ballrm. B, 3-5 pm (www.science2014.pitt.edu)

Neurological Surgery Lecture
“Management of Complex Cerebral Aneurysms: How Much Has Changed Since 1993?” B. Gregory Thompson Jr., U of MI; B-400 Presby; 4 pm (edwardsy2@upmc.edu)

Oral & Maxillofacial Surgery Lecture
“Complications in CMF Trauma,” Richard Bauer; G-33 Salk, 4 pm

Geology & Planetary Science Colloquium
Brian Balta; 11 Thaw, 3:50 pm

Chemistry Seminar
“Protein-Protein Interactions in Acetate Biosynthetic Pathways,” Michael Burkhardt, UC-San Diego; 150 Chevron, 4 pm

Science 2014 Provost Lecture
“The Development of High-Speed DNA Sequencing: Neanderthal, Moore & You,” Jonathan Rothberg, 4 Combinator; Alumni, 4 pm (www.science2014.pitt.edu)

Classics Lecture
“The Diplomat, the Dealer & the Digger: Writing the History of the Antiquities Trade in 19th-Century Greece,” Yannis Galanakis, Cambridge; 125 FFA, 4:30 pm

Falk Library Exhibit Lecture
“William Shakespeare & the Four Humors: Elizabethan Medical Beliefs,” Gail Paster; 1105 Scaife, 6 pm

Drue Heinz Literature Prize Readings
Kent Nelson & David Guterson; National Aviary, 700 Arch St., 6:30 pm (mes5@pitt.edu)

Concert
OvreArts; Heinz Chapel, 7:30 pm

Friday 3

IEE Workshop
“The 1st Step: Mechanics of Starting a Small Business”; Mervis, 7:30-10 am (iee@katz.pitt.edu)

Greensburg Campus Golf Outing
Ligonier Country Club, 10 am (www.greensburg.pitt.edu/golfouting)

CIDDE Workshops
“TA: Developing a Teaching Portfolio,” G74 Hillman, 10 am; “CourseWeb & Mobile Learn,” 10 am; “iPad Meetup,” noon; B26 Alumni (www.cidde.pitt.edu/workshops)

UNIVERSITY TIMES

2014-15 publication schedule

Events occurring	Submit by	For publication
Oct. 9-23	Oct. 2	Oct. 9
Oct. 23-Nov. 6	Oct. 16	Oct. 23
Nov. 6-20	Oct. 30	Nov. 6
Nov. 20-Dec. 4	Nov. 13	Nov. 20
Dec. 4-Jan. 8	Nov. 26 (Wed.)	Dec. 4
Jan. 8-22	Jan. 2 (Fri.)	Jan. 8
Jan. 22-Feb. 5	Jan. 15	Jan. 22
Feb. 5-19	Jan. 29	Feb. 5
Feb. 19-March 5	Feb. 12	Feb. 19
March 5-19	Feb. 26	March 5
March 19-April 2	March 12	March 19
April 2-16	March 26	April 2
April 16-30	April 9	April 16
April 30-May 14	April 23	April 30
May 14-28	May 7	May 14
May 28-June 11	May 21	May 28
June 11-25	June 4	June 11
June 25-July 9	June 18	June 25
July 9-23	July 2	July 9
July 23-Sept. 3	July 16	July 23

The University Times events calendar includes Pitt-sponsored events as well as non-Pitt events held on a Pitt campus. Information submitted for the calendar should identify the type of event, such as lecture or concert, and the program's specific title, sponsor, location and time. The name and phone number of a contact person should be included. Information should be sent by email to: utcal@pitt.edu.

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