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Penn's Grad School Rankings 2014

Each year *US News and World Report* ranks graduate and professional schools in medicine, business, education, law and engineering. This year Wharton ranked #3, Perelman ranked #4 in research, with the Law School and the Graduate School of Education both coming in at #7.

Additionally, they rank programs in the sciences, social sciences, humanities, nursing and other fields periodically. This year, several departments and specialties in SAS, SEAS and Penn Design were ranked and are listed below.

The 2014 edition of their *Best Graduate Schools* book will be available on April 9. The full rankings are available on the *US News and World Report* website at www.usnews.com

| | 2013 | 2014 |
|--|-----------|-----------|
| Wharton School | 3 | 3 |
| Executive MBA | 1 | 1 |
| Finance | 1 | 1 |
| Accounting | 3 | 2 |
| Marketing | 2 | 2 |
| International | 2 | 2 |
| Production/Operations Management | 2 | 2 |
| Entrepreneurship | 3 | 3 |
| Information Systems | 5 | 4 |
| Supply Chain/Logistics | 7 | 6 |
| Perelman School of Medicine | 2 | 4 |
| Pediatrics | 2 | 1 |
| Women's Health | 4 | 3 |
| Internal Medicine | 5 | 4 |
| Drug/Alcohol Abuse | 5 | 5 |
| AIDS | 9 | 7 |
| Primary Care | 11 | 13 |
| Law School | 7 | 7 |
| Graduate School of Education | 9 | 7 |
| Education Policy | 7 | 8 |
| Higher Education Administration | 9 | 6 |
| School of Engineering | 23 | 22 |
| Biomedical | - | 6 |
| School of Arts & Sciences | | |
| English | - | 4 |
| American Literature after 1865 | - | 4 |
| American Literature before 1865 | - | 2 |
| 18th Century through 20th Century British Literature | - | 2 |
| Medieval/Renaissance Literature | - | 3 |
| Economics | - | 9 |
| Macroeconomics | - | 6 |
| History | - | 9 |
| Modern US History | - | 8 |
| US Colonial History | - | 2 |
| Women's History | - | 4 |
| Sociology | - | 10 |
| Sociology of Population | - | 4 |
| Psychology | - | 12 |
| Political Science | - | 28 |
| PennDesign | | |
| Fine Arts | - | 45 |

(-) Indicates not ranked in the 2013 edition which came out last year.

Silfen Forum: Open Learning and the Future of Higher Education

University of Pennsylvania President Amy Gutmann and other experts will explore online learning and what it may have in store for higher education at the Silfen University Forum at Penn on April 5 at Irvine Auditorium at noon. Tickets are required; to register for the Forum, visit: www.upenn.edu/silfenforum/event.html



Massive open online courses, or MOOCs, are the subject of broad discussion and debate in higher education and beyond. Thomas L. Friedman wrote in *The New York Times* in January that "nothing has more potential to unlock a billion more brains to solve the world's biggest problems."

President Gutmann will moderate the Forum, which includes Mr. Friedman, a *New York Times* columnist and three-time Pulitzer Prize winner; the Honorable Martha J. Kanter, US Under Secretary of Education; William E. Kirwan, chancellor of the University System of Maryland; and Daphne Koller, Stanford University professor and co-founder of the online learning platform Coursera, which has enrolled almost 2.8 million students and is adding about 70,000 new students weekly from around the world.

Web-based teaching and learning are pioneering a new model for higher education, with the capacity to give millions more people access to a top-level educational experience.

"The global economy needs an ever more highly educated work force of talented people," Dr. Gutmann said, "and one avenue to that goal may be through massive online learning, a system in which Penn has been an early leader. MOOCs also hold great promise for helping our faculty further improve our traditional classroom learning experience. For example, students could learn basic concepts through online coursework, freeing faculty to spend more class time on advanced concepts and discussion. The possibilities are boundless."

Penn is among the inaugural cohort of universities offering free online courses through Coursera, which launched in 2012 (*Almanac* April 24, 2012). Penn faculty have offered or are offering 19 courses on Coursera from a wide range of departments, including medicine, finance, design, legal studies, nursing, ethics, computer science, health policy, math, music, engineering, poetry, pharmacology, and classics, with more than 840,000 students from around the world having registered for Penn online courses since they began. Penn's Introduction to Calculus, an online course taught by Robert Ghrist, a Penn Integrates Knowledge professor, has been recommended for credit by the American Council on Education.

David Silfen, a 1966 Penn alumnus, is chairman of Mayfair Management/Silfen Investment Partners LP and a senior director of The Goldman Sachs Group. He has been a Penn Trustee since 1998. He is vice chair of the Board of Trustees and he serves on the Trustee Executive, Budget and Finance, Nominating and Development committees and is a former member of the Investment Board. He currently chairs the Board of Overseers of the School of Arts & Sciences.

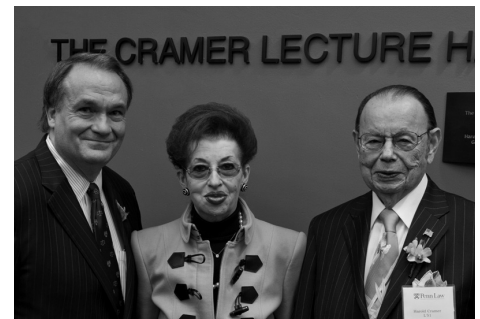
Mr. Silfen and his wife, Lyn, are the parents of Jane Silfen, C'07, and Adam Silfen, C'98, WG'03. Longtime supporters of undergraduate education, in addition to the Silfen University Forum, Mr. and Mrs. Silfen previously funded two Penn Integrates Knowledge (PIK) University Professorships, the Silfen Student Study Center (*Almanac* September 14, 1999), a term professorship and the David and Lyn Silfen Fund in SAS to support the Pilot Curriculum.

Renovated Space in Silverman Hall Named for Cramers

The Penn Law School has named a newly renovated lecture hall and adjoining seminar room in honor of Harold Cramer, L'51 and his wife, Geraldine, who have established a multimillion-dollar bequest intention to support the renovation of Silverman Hall and future projects. Cramer Lecture Hall, a 45-seat teaching space, and the adjacent Cramer Seminar Room are located on the second floor of Silverman Hall.

Dean Michael A. Fitts formally announced the Cramer Hall naming at the School's Benefactors' Dinner. "We're enormously grateful to the Cramers for their gift," Dean Fitts said. "Harold is a Penn Law and Philadelphia icon. His footprint on his alma mater and on the legal profession in Philadelphia has been enormous."

At Penn, Mr. Cramer co-founded the prestigious Roberts Lecture, which celebrated its 50th anniversary last year. Mr. Cramer is a past president of the Law School's Alumni Society. His wife, a past Board member of the National Museum of American Jewish History, has been involved in numerous philanthropic activities.



Dean Fitts with Geraldine and Harold Cramer.

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Call for Proposals—Cross Currents: April 19

Provost Vincent Price, Vice Provost for Education Andrew Binns and the Council of Undergraduate Deans are pleased to announce Cross Currents, a new series of classes for all undergraduates at Penn. These courses will spotlight the diverse intellectual perspectives across the University and their applications to vital issues, as part of the campus-wide emphasis of the Penn Compact on integrating knowledge.

Each Cross Currents course will be designed and taught by faculty members from at least two of the four Schools at Penn that have undergraduate students: the School of Arts & Sciences, the School of Engineering & Applied Science, the School of Nursing and the Wharton School.

Faculty from Schools that do not have an undergraduate division can participate under the sponsorship of one of the undergraduate Schools. For example, a course might be co-taught by a faculty member from an undergraduate School and a faculty member from a professional School (sponsored by a second undergraduate School).

We invite faculty to submit proposals for courses to be taught beginning in the fall term of 2013, spring term of 2014 or fall term of 2014. The course should be a traditional 14-week course co-taught by at least two faculty members from (or sponsored by) at least two different undergraduate Schools. Proposals must include the proposed topic, faculty names (with school affiliation, CV and an indication of approval by their department chairs and/or deans) and rationale and goals for the class. For courses involving faculty from outside the undergraduate Schools, documentation of a sponsoring agreement between the faculty member's School and the sponsoring undergraduate School needs to be presented. In these cases, proposing faculty would approach one of the undergraduate deans for 'sponsorship' of the professional school faculty member's participation.

The Provost's Office will contribute funding of up to \$5,000 for preparation time, technology costs, innovation costs, class expenses (e.g. field trips) or other course-related expenses as proposed. This funding can be supplemented by outside grants at the discretion of the faculty members.

Proposals should be no longer than three pages (not including CVs). If possible, a preliminary syllabus should be included, listing proposed readings. Successful proposals should include the following:

- Topic with broad appeal (ideally to students from all four undergraduate Schools) that lends itself to multidisciplinary approaches
- Intellectual rationale for bringing together these perspectives in a single course
- Cohesive pedagogical approach (one course versus several mini-courses strung together)
- Intellectual rigor of topic (ensuring depth)
- Timely impact (ensuring that the topic is both timely and sustainable for at least several offerings of the course)
- Innovative teaching methods
- Budget and budget justification related to course support

Proposals must have the signature of each faculty member's department chair and be submitted by email to the Office of the Vice Provost for Education, at provost-ed@upenn.edu no later than April 19, 2013.

BFS Course Design Grants: April 12

Together with the Office of the Provost, the Environmental Sustainability Advisory Committee, and the Netter Center for Community Partnerships, the Benjamin Franklin Scholars program is pleased to announce the BFS Course Design Grants. This year's recipients included courses on the psychology of food as well as the biological bases of male-female relations.

We will consider granting \$2,000-\$5,000 to exceptional proposals for the development of new BFS seminars (for more information on BFS in general, see www.upenn.edu/curf/bfs). The money is to be used to facilitate innovative course components that may have expenses attached to them, with up to \$2,000 available as a course development stipend for the faculty member's research fund. Proposals submitted by April 12, 2013 will be given full consideration.

Standing faculty at Penn in any of the 12 Schools are eligible, and courses may be proposed for any future semester, beginning with fall 2013. We look to support innovations in the types of materials assigned, in classroom task design, in the format of graded assignments, as well as new team teaching, especially across Schools. Four kinds of courses are especially encouraged:

Green Seminars: Green Seminars will develop innovative approaches to the theme of sustainability across the many domains in which this topic is relevant. We look for engagement with local political issues or global environmental initiatives.

Learning and Research with the Community: These courses will encourage students to develop their learning through hands-on engagement in the community, such as learning by teaching in local classrooms, improving health and nutrition in a school and community, or exploring Philadelphia's cultural venues. These Academically Based Community Service Courses (ABCS) and experiences help students to become active, participating citizens of a democratic society.

Theme-Year Courses: Courses that develop next year's theme—*Sound*—will be supported, with special interest in those that cross historical and disciplinary boundaries.

Ideas In Action: These courses will design new ways of engaging students in active learning. They ask students to experience what they study, whether that be a course that brings students to work in a cognitive science lab or a course on monasticism that asks students to live by the ascetic rules of an order.

Proposal Format: Proposals should be under 500 words. They should outline the subject matter, the innovations planned and the reasoning why these particular initiatives are promising. A one-page draft syllabus, outlining weekly topics, readings and assignments, should accompany the proposal along with a one-page budget, if applicable and an endorsement from the department chair.

Please submit documents to BFS Associate Director Linda Wiedmann, wiedmann@upenn.edu. Faculty grant recipients will attend two sessions with the BFS team and other winners.

—Peter T. Struck, *Classical Studies*
Director, Benjamin Franklin Scholars

SPEAKING OUT

Honors Program

After an email followed by a conversation with a current student, I realized that our College's honors course program (briefly in jeopardy in the late 1990s) was the single biggest and most gratifying of awards over my career, beginning with a TA appointment at Harvard (1957-1958).

I have been (at one level of consciousness, at least) thinking often about my best students in my honors courses, 1986-2009, as I now work in my fourth year of retirement, after 84 birthdays; my last 'takes' from the years of my courses on "America as an Economic Republic." This (last) book is a lengthy "final" lecture on what my studies of the US, 1789-2013 and the fates of Article II, Section 8 of the Constitution, have left me with a formidably straight, (if bumpy) but clearly traceable line from Adam Smith to a phase I have come to think of as a "post-democratic society."

I write to add my voice, however, to stress the value of our Honor Students Program; these students, ten at a time, wrote weekly papers, 8-10 pages (prudently edited), whose contents stimulated me in company with my ten students to extraordinarily thoughtful questions for discussion, and helped me to craft many a published paper and a huge string of twice-weekly lectures during my tenure on the same topic. I'm sure my Honors program colleagues would agree that this costly (small enrollment) course, helped to enrich the larger course (87 students, including annually, two or more local alumni "seminarians"), most of them immigrants as I once was since the 1st grade in public schools, in 1935.

I can offer no advice to colleagues who have written to *Almanac* so urgently and frequently about how best to teach on *Almanac's* back page, but I can thank my students for helping me do my work by their patience, their searching questions and by their strong faiths in the great learning enterprise that is the College.

I remain their beneficiary, and the beneficiary of the Honors Program; it was a long, drawn out pleasure!

—Ivar Berg
Emeritus Professor of Sociology

Speaking Out welcomes reader contributions. Short, timely letters on University issues will be accepted by Thursday at noon for the following Tuesday's issue, subject to right-of-reply guidelines. Advance notice of intention to submit is appreciated. —Eds.

Portable 3-Year Academic Calendar



Did you know that Penn's new 3-year academic calendar is available on *Almanac's* website, Penn's mobile website and as a printable PDF?

You can also get the calendar to sync with MS Outlook, Apple iCal, Google calendar and your mobile devices by visiting www.upenn.edu/almanac/acadcal.html and following the instructions from the link at the top of the page.

Dahlia Sataloff: Chair of Surgery at Pennsylvania Hospital



Dahlia Sataloff

1985. In 2005, she was named Director of the Integrated Breast Center and Vice Chair of the Department of Surgery at PAH. Also a long standing instructor in the Perelman School of Medicine at the University of Pennsylvania, Dr. Sataloff was named a full Clinical Professor of Surgery in 2006.

Dr. Dahlia M. Sataloff has been appointed the chair of the department of surgery at Pennsylvania Hospital (PAH).

The first woman to lead Pennsylvania Hospital's department of surgery in its 261-year history, Dr. Sataloff has been a member of the PAH surgical staff since

Dr. Sataloff has dedicated her practice exclusively to breast surgery and the treatment and management of benign and malignant breast diseases. She has lectured extensively on benign breast diseases, breast cancer detection, treatment and management and is the author of over 30 scientific papers and three books. The recipient of multiple awards, Dr. Sataloff has been consistently recognized as one of *Philadelphia Magazine's* "Top Docs" for the treatment of breast disease and Castle Connolly's America's Top Doctors for Cancer.

Dr. Sataloff graduated with honors from the University of Michigan Medical School and completed her residency in general surgery at PAH. Board-certified in general surgery and a Fellow of the American College of Surgeons, she is a member of nearly 20 professional societies including: the American Medical Association, the American Society of Breast Disease, the American Society of Breast Surgeons, the American Society of Clinical Oncology, the Society of Surgical Oncology and the Association of Surgical Education, among others. She also serves as peer scientific reviewer for the *Archives of Surgery* and is a member of the Eastern Cooperative Oncology Group.

Winka Dubbeldam: Chair of Architecture at School of Design

Professor Winka Dubbeldam has been appointed as chair of the department of architecture in PennDesign. The appointment, announced by Dean of the School of Design, Marilyn Jordan Taylor, follows the work of a search committee led by architecture professor Ali Rahim and is effective immediately.



Winka Dubbeldam

In her new role at PennDesign, Professor Dubbeldam will be leading the school's array of architecture programs, including the Master of Architecture, the Master of Architecture in Environmental Building Design, the Post-Professional Program at PennDesign (PP@PD) and the PhD in architecture as well as continuing instruction of undergraduate students majoring in architecture.

Professor Dubbeldam brings broad experience in leading provocative design studios. She has taught at PennDesign, as well as Columbia and Harvard. At PennDesign she also leads the school's post professional architectural design program. Her studios for PP@PD have embraced programs of zero waste as well as investigations of the fates of coastal cities in relation to global warming and extreme weather. She is internationally acclaimed for her ability to blend pragmatics and provocation in her studios.

The Dutch designer, architect and founder/principal of the New York firm Archi-Tectonics is also widely known for her award-winning work, recognized for the use of sustainable materials and smart building systems as well as for elegance and innovation. Recent projects include the Ports1961 flagship retail store in Paris, the concept for Munish Narula's restaurant Tashan in Philadelphia, a renovation of musician John Legend's Manhattan loft and an orphanage and school in Liberia. Archi-Tectonics was recently awarded the project to create the

Yulin Culture and Art Center, a multi-purpose cultural development in Yulin, China.

"As we conducted our search, it became clear that Winka, both as a high-level designer and as an ardent risk-taker who is pushing architecture to exciting new directions, was the ideal candidate to lead the School of Design's architecture programs," said Dean Taylor. "We already know Winka as an excellent teacher, inspiring researcher and respected colleague; I am confident that the School will now benefit from her commitment to advance our architectural education and its relevance to the challenges of urbanism, civic design and building performance."

Marion Weiss, Graham Chair Professor of Architecture at PennDesign, and principal of Weiss/Manfredi, and member of the search committee, praised the choice of Professor Dubbeldam as Chair. "Winka has a sustained engagement in both the theoretical possibilities and the physical realities of architecture. She is both theoretically strong and materially inventive, a natural fit to bring together Penn's strengths in sustainable research and application to built work," Professor Weiss said.

Professor Dubbeldam's studies began in sculpture at the Rotterdam Art Academy, and she completed her Master's in Architecture at Rotterdam's Institute of Higher Professional Architectural Education before going to New York to do postgrad work at Columbia University.

Professor Dubbeldam's investigative projects have been featured in international professional journals and in the three monographs: *Winka Dubbeldam Architect* (010 Publishers, 1996), *AT-INDEX* (Princeton Press, 2007) and *Archi-Tectonics* (DAAB, 2010).

"Winka has the skill, the experience and the commitment to lead our architecture programs by advancing our curriculum, our critical discourse and our visibility," said Dean Taylor. "It's gratifying that her appointment was enthusiastically endorsed by our faculty as well as external reviewers—including three deans, one former dean, a former chair of architecture and a Pritzker Prize winner—to take on this exciting new role."

Hikaru Kozuma: Associate Vice Provost for Student Affairs



Karu Kozuma

Hikaru Kozuma has been named Associate Vice Provost for Student Affairs in the Vice Provost for University Life (VPUL) Division at Penn. The announcement was made by Vice Provost for University Life Dr. Valarie Swain-Cade McCoullum.

Mr. Kozuma, known as Karu, has served as Interim

Associate Vice Provost since July, 2012. Since 2010, he has been Executive Director of the Office of Student Affairs (*Almanac* September 14, 2010), where he nurtures VPUL administrative support for 400 student groups including the Undergraduate Assembly and the Graduate and Professional Student Assembly.

"I am delighted to welcome Karu to this expanded role in partnering Penn undergraduate, graduate and professional students' interests and aspirations," said Dr. McCoullum. "He has been an extraordinary asset to our community, and he now has the opportunity for additional important contributions to University life."

"I am honored and excited to support the Penn community in this role," added Mr. Kozuma. "I look forward to working with, and learning from, some of the best people in all of higher education."

The Associate Vice Provost for Student Affairs (AVPSA) serves as the Vice Provost's chief deputy in all matters involving undergraduate, graduate and professional student affairs, activities and programming. The AVPSA is a liaison with student affairs officers in all 12 Schools of the University, as well as College House Deans. He also serves as the Vice Provost's formal deputy for Open Expression and on the University Crisis Team.

In his new position, Mr. Kozuma will have direct oversight of the following departments: Alcohol and Other Drug Program Initiatives, Civic House, the Lesbian Gay Bisexual Transgender Center, Student Intervention Services, the Office of Student Affairs, the Office of Student Affairs/Fraternity Sorority Life, University Life Arts Initiatives and the Penn Women's Center.

A New York native, Mr. Kozuma came to Penn from Columbia University, where he spent eight years in student affairs and residential leadership. He holds a BA in English from Middlebury College and a master's in higher education administration from Harvard. He anticipates completing his EdD in 2015 at Penn GSE.

Mr. Kozuma is the past National Co-Chair for the Asian Pacific Islander Knowledge Community and a past member of the Board of Managers of the International YMCA. In 2012, he received the Dr. Rosane Rocher Faculty/Staff Award from the Pan-Asian American Community House.

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Honors & Other Things

William H. Whyte Award: Mr. Barnett

Partners for Livable Communities presented *Jonathan Barnett*, director of the Graduate Urban Design Program and professor of practice in city & regional planning at PennDesign, with the William H. Whyte Award at its annual awards ceremony, *A Celebration of Vision & Community Spirit*.

Mr. Barnett was recognized for his pioneering work in modern city design, urban design planning and education, and suburban fringe planning.

“Jonathan’s groundbreaking work in urban planning during the Lindsey Administration of New York City set the course for urban planning and design in metropolitan areas,” said Partners President Bob McNulty. “As cities focus more on sustainable city planning, Jonathan’s work can be applied to improving communities across the nation.”

The William H. Whyte Award recognizes those individuals that have exemplified and maintained the mission and ardor of William H. Whyte, a New York City writer, anthropologist, urbanologist, social critic and long-term colleague of Partners.

Reeder Award: Dr. Bosk

Dr. Charles L. Bosk, professor of sociology in Penn’s School of Arts & Sciences and professor of anesthesiology and critical care in the Perelman School of Medicine, will receive the 2013 Leo G. Reeder Award in August, at the American Sociological Association’s annual meeting in New York City.

The Reeder Award is given annually for distinguished contribution to medical sociology and recognizes scholarly contributions, especially bodies of work displaying an extended trajectory of productivity that has contributed to theory and research in medical sociology. The Reeder Award also acknowledges teaching, mentoring and training, as well as service to the medical sociology community broadly defined.

Gies Award: Dr. Cohen

Dr. D. Walter Cohen, dean emeritus and professor emeritus of Penn Dental Medicine, is among those individuals recognized yesterday in Seattle with a 2013 William J. Gies Award. He received the Gies Award for Outstanding Achievement-Dental Educator. Dr. Cohen first joined the Penn Dental Medicine faculty in 1951 and through his tenure built a legacy of leadership in the field of periodontics, eventually serving as professor and chairman of the department of periodontics.

The Gies Awards, named after dental education pioneer Dr. William J. Gies, honor individuals and organizations exemplifying dedication to the highest standards of vision, innovation and achievement in dental education, research and leadership.

Penn Museum’s Wilton Krogman Award: Richard Dawkins

Richard Dawkins, former Charles Simonyi

Professor of the Public Understanding of Science at Oxford University, was presented the Penn Museum’s Wilton Krogman Award for Distinguished Achievement in Biological Anthropology on March 12. The award was presented at the 2013 Bicentennial Philomatheon Society Annual Oration.

The Krogman Award was developed in memory of Dr. Wilton M. Krogman, former professor of physical anthropology and founder of the Philadelphia Center for Research in Child Growth, now the W. M. Krogman Center for Research in Child Growth and Development at CHOP.

Scheele Award: Dr. FitzGerald

Dr. Garret FitzGerald, chair of the department of pharmacology and director of the Institute for Translational Medicine & Therapeutics at the Perelman School of Medicine, is the recipient of the 2013 Scheele Award from the Swedish Academy of Pharmaceutical Sciences.

The Academy bestows the Scheele Award on prominent scientists in the field of drug research and development to commemorate the skills and achievements of the famous Swedish chemist and pharmacist Carl Wilhelm Scheele.

NSF Honor: Dr. Jemmott

Dr. John B. Jemmott, professor of communication in psychiatry at the Perelman School of Medicine and the Kenneth B. Clark Professor of Communication at the Annenberg School of Communication, has been selected as one of 60 scholars profiled by the NSF Graduate Research Fellowship Program (GRFP).

For over 20 years, Dr. Jemmott has been funded by the NIH to conduct research developing and testing the efficacy of theory-based culturally appropriate HIV/STD risk-reduction interventions for a variety of populations in the US and sub-Saharan Africa.

The list of the top 60 GRFP fellows selected was compiled in honor of the NSF’s GRFP’s 60th Anniversary.

One Health Award: Dr. Mason, Dr. Paterson



Nicola Mason



Yvonne Paterson

Dr. Nicola Mason, assistant professor of pathology and clinical studies at Penn’s School of Veterinary Medicine and *Dr. Yvonne Paterson*, associate dean for research and professor of nursing in Penn’s School of Nursing are the co-recipients of the inaugural One Health Award (*Almanac* November 13, 2012). They received the award for their collaboration on a project to further develop cancer immunotherapies that are already showing promise in both canine and human patients.

The One Health Award, a new award for excellence in promoting One Health Initiatives and Inter-professional Education, was established this year by the deans for the four health schools at Penn—Medicine, Nursing, Veterinary Medicine and Dental Medicine. The award recognizes exemplary contributions toward expanding interdisciplinary education and improving health care and was presented at the international *Feeding Cities* conference at Penn last Friday.

NSF Career Award: Dr. Mangharam, Dr. Roth

Dr. Rahul Mangharam, the Stephen J. Angelo Term Assistant Professor of Electrical and Systems Engineering, is the recipient of an NSF CAREER award for his proposal, “Foundations for Modeling and Verification of Medical Cyber-Physical Systems.”

Dr. Mangharam’s research goal is to merge computing communications and the physical world into integrated cyber-physical systems, enabling seamless communication with and control of objects such as energy-efficient buildings, the human body and automobiles in the physical world.

Dr. Aaron Roth, the Raj and Neera Singh Assistant Professor in the department of computer and information science, is the recipient of an NSF CAREER award for his proposal, “The Algorithmic Foundations of Data Privacy.”

Dr. Roth studies algorithm design in settings in which either the data belongs to other self-interested parties, or the computation is to be performed by other self-interested parties. This requires studying the algorithmic foundations of data privacy and game theory. In particular, he is interested in what kinds of computations can be performed while satisfying strong information-theoretic privacy constraints and in how selfish agents can be incentivized by these strong privacy protections to allow their data to be used.

The CAREER award is the NSF’s most prestigious award in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education and the integration of education and research within the context of the mission of their organizations.

W.W. Smith Charitable Trust Award: Dr. Voight



Benjamin Voight

Dr. Benjamin F. Voight, assistant professor of pharmacology and genetics at the Perelman School of Medicine, has received an award for over \$100,000 from the W.W. Smith Charitable Trust to study the complex patterns of genetic inheritance and environmental factors that underlie cardiovascular disease, specifically in type-2 diabetics.

The W.W. Smith Charitable Trust has historically made and continues to make its greatest investment in medical research. Even with impressive gains, there are still a number of diseases for which there are no cures, requiring more research to understand their origins and progression. The Trust continues to fund basic medical research in the areas of heart, cancer and AIDS.

(continued from page 4)

Penn: Best Workplace for Commuters

Best Workplaces for Commuters, a National Transit Research Center program designed to encourage sustainable innovation, singled out 23 employers nationwide in January during the annual "Race to Excellence" Virtual Awards Ceremony. Penn was one of this year's recipients to be recognized for its sustainable transportation initiatives and practices. The awards recognize organizations who have taken exemplary steps to offer transportation options such as vanpool and transit benefits or telework and compressed workweek for their employees.

Team of Distinction: HUP's Clinical Nutrition Support Team

The Hospital of the University of Pennsylvania (HUP)'s Clinical Nutrition Support Services team was one of the inaugural recipients of the American Society for Parenteral and Enteral Nutrition's (ASPEN) 2012 Clinical Nutrition Team of Distinction award.

Clinical Nutrition Support Services at HUP is a professional clinical department of 27 people, most of whom have advanced practice specialty certifications in nutrition support or subspecialties including oncology, renal or diabetes management. The team provides clinical nutrition care to in-patients at HUP and Penn Medicine Rittenhouse, completing over 36,000 patient interventions annually and receiving approximately 850 consult requests monthly.

This award identifies and elevates the stature of interdisciplinary nutrition care within an institution or agency and externally in local communities. Clinical nutrition teams, as defined for this award, consist of an identified interdisciplinary group of practitioners with a member from each of four disciplines: dietetics, medicine, nursing and pharmacy.

Rabinowitz Award for Research: Dr. Ali, Dr. Walter

The Joseph and Josephine Rabinowitz Award for Excellence in Research was presented this year to two Penn Dental Medicine faculty members who will be working on projects with colleagues from other Penn schools. Dr. Hydar Ali, professor in the department of pathology, and Dr. Ricardo Walter, assistant professor of restorative dentistry, are this year's recipients.

Dr. Ali and his collaborator, Dr. Emer Maria Smyth, research associate professor of pharmacology with Penn's Institute for Translational Medicine and Therapeutics, were selected for their proposal "Cross-Regulation of G Protein Coupled Receptor Signaling in Human Mast Cells." Dr. Walter and his collaborators, Dr. Vergil Percec, the P. Roy Vagelos Professor of Chemistry, and Dr. Andrew E. Feiring, adjunct professor of chemistry, both in Penn's School of Arts & Sciences, received the award for their proposal "Development of a Novel Bisphenol A-Free Composite Resin Restorative Material."

The Rabinowitz Award was established in 2002 through the generosity of the late Dr. Joseph Rabinowitz, an active member of the school's biochemistry faculty for 29 years and his wife, Josephine. The Rabinowitzes endowed this award to promote independent research among Penn Dental Medicine faculty members.

2013 Model Supervisor Award Finalists

The Model Supervisor Award is given to an outstanding Penn supervisor who serves as a role model for others to emulate. From setting goals to giving constructive feedback to helping others develop their careers, Model Supervisors exhibit exemplary leadership—and this year's nominees are among the best when it comes to supervisors at Penn.

The 2013 Model Supervisor finalists are:

- Peg Heer, associate treasurer, Gift and Investment Services, Office of the Treasurer, Finance
- Warren Petrofsky, director, Information Security, UNIX Systems and Natural Science Computing, School of Arts & Sciences

Chosen by a rotating selection committee of campus leaders (along with feedback from staff), these individuals were selected for their outstanding supervisory behaviors—including fairness, strong leadership and exceptional managerial skills.

Join Human Resources on April 9 to see who captures this year's Model Supervisor Award. The winner will be announced live on stage at the Models of Excellence Awards Ceremony and Reception at 4 p.m. in Irvine Auditorium.

To RSVP, contact Human Resources at QOWL@hr.upenn.edu or (215) 898-1012. Or visit www.hr.upenn.edu/myhr/appreciation/models for more information.

—Division of Human Resources

Benefits Open Enrollment is Coming

Benefits Open Enrollment (your annual opportunity to make changes to your healthcare elections) is still a few weeks away. But it's never too early to get a jumpstart on planning your healthcare benefits.

Starting March 25, we're offering presentations on campus so you can ask questions and get more information about your options for the 2013-2014 plan year. Presentations will begin at the times listed below; they'll run for 45 minutes followed by a Q&A session. Join us to learn more about this year's Open Enrollment period.

| Date | Time | Location |
|---------------------|------------|---|
| Monday, March 25 | 9:30 a.m. | Irvine Auditorium |
| Thursday, March 28 | 11 a.m. | SAS, Wolf Room, McNeil Center |
| Friday, March 29 | 11 a.m. | Wharton, Steinberg Hall-Dietrich Hall |
| Thursday, April 4 | 11:30 a.m. | Terrace Room, Claudia Cohen Hall |
| Wednesday, April 10 | 1:30 p.m. | Terrace Room, Claudia Cohen Hall |
| Thursday, April 11 | noon | Dental School, Sig Seigal Boardroom, Evans Building |

Benefits Open Enrollment will run from Monday, April 15 through Friday, April 26. Complete details will be available shortly on the Human Resources website at www.hr.upenn.edu/myhr/benefits/health/open-enrollment

The Value of a Penn Career

Your dedication to Penn makes us the great institution we are, and we want you to feel valued for the amazing things you do every day. That's why the University offers a total compensation package that's more than just a paycheck.

Discover the value of a Penn career in your 2012 Total Compensation Summary. You'll get the full picture of the benefits we provide you—like wellness programs to help you maintain your health, retirement benefits to help you grow your financial future, educational benefits to help you learn new skills and comprehensive health and insurance options. You can also enjoy a wide range of family-friendly resources, disability programs and discount programs.

Look for your personalized 2012 Total Compensation Summary at your home address later this month. You can also view your 2012 summary online by visiting the Human Resources website at www.hr.upenn.edu/myhr/payandperform/totalcomp

—Division of Human Resources

Explore Philadelphia for a Discount

It's hard to beat the arts and entertainment scene in Philadelphia. Whether you want to see a world-renowned museum exhibit, hear a live musical performance or spend an afternoon catching thrills at an amusement park, the Philadelphia region has something for everyone. You can get in on the action for a discount.

As a Penn faculty or staff member, you have access to a number of arts and entertainment discounts that can help you enjoy the city of Philadelphia without breaking the bank.

Philadelphia Orchestra: Listen to captivating performances by one of the most famous orchestras in the world. You can receive a 20% discount when you purchase tickets to select concerts by the Philadelphia Orchestra.

Philadelphia Museum of Art: See priceless works of art in one of the largest museums in the United States. You can become a member of the Philadelphia Museum of Art and get unlimited free admission, plus free tickets to special exhibitions, discounted rates at the museum store and restaurant, and more.

Six Flags Theme Park: If you're looking for some excitement, you can enjoy savings of up to 50% off the regular price at Great Adventure, Hurricane Harbor and Wild Safari when you buy tickets or a season pass online. You'll have discounted access to roller coasters, water slides, exotic animals and much more.

Pennsavers: Sign up for half-price tickets to a host of cultural events around the region. Pennsavers knocks 50% off the original ticket price of various entertainment events throughout the Philadelphia area—from theater shows and comedy clubs to museum exhibits, sporting events and more.

Visit the Human Resources website at www.hr.upenn.edu/myhr/benefits/additional to learn more about these and other discounts. You can also find a wide array of cultural institutions at Penn, many of which offer their own special discounts to faculty and staff. Visit www.upenn.edu/life-at-penn/arts.php for a complete list.

—Division of Human Resources

Volunteer Opportunities

Dear Penn Community,

Thank you for your spirit of volunteerism. Your continued support of the many volunteer opportunities offered at the University is unprecedented. Many benefit from your willingness to share. We receive many expressions of gratitude from community members and agencies we have partnered with. The University community continues to work towards being good neighbors in our shared community. We thank you for your overwhelming support and for your generosity.

—Isabel Mapp, Associate Director, Netter Center for Community Partnerships,
Office of Government and Community Affairs

Penn VIPS Annual Change Drive to Benefit Alex's Lemonade Stand: April 1–April 30

Alex's Lemonade Stand is a national organization with Greater Philadelphia roots. The organization grew out of the front yard lemonade stand started by Alexandra "Alex" Scott, who was a pediatric cancer patient. In 2000, at the age of four, Alex opened her first annual lemonade stand with high hopes of raising money for pediatric cancer causes. Every year thereafter, Alex held an annual lemonade stand in her Pennsylvania front yard and inspired others to donate money to her cause, even after her death at the age of 8 in 2004. This year, Penn Volunteers in Public Service is working with ISC and MAGPI to collect funds to raise money for this outstanding local foundation through the Penn VIPS coin drive.

Donate your loose change or even take a cup home and finally get rid of those pennies on your dresser. Donations will be given to the Alex's Lemonade Stand Foundation. Please note the convenient locations listed below where you can collect a cup and/or make a donation:

| | | | |
|--------------------------|-----------------------------|---------------------|----------------|
| President's Office | 100 College Hall | Brenda Gonzalez | (215) 898-0447 |
| Provost's Office | 353B 3401 Walnut | Susan Curran | (215) 898-6841 |
| Museum Reception Desk | Near Kress Gallery | Bonnie Crossfield | (215) 898-4001 |
| Af-Am Resource Center | 3537 Locust Walk | Rob Carter | (215) 898-0104 |
| Human Resources | 538A 3401 Walnut Street | Syreeta Gary | (215) 898-6018 |
| Van Pelt Library | Cataloging & Metadata Dept. | Rachelle Nelson | (215) 898-9048 |
| Netter Center | Rm. 504, 133 S. 36th St. | Isabel Mapp | (215) 898-2020 |
| ISC | 265C 3401 Walnut St | Doris Pate | (215) 573-6803 |
| Wharton | 1000 SH-DH | Jennifer O'Keefe | (215) 898-1092 |
| School of Nursing | 202 Claire Fagin Hall | Donna Milici | (215) 573-0747 |
| ISC | 203A Sansom West | Kathie Ritchie | (215) 573-3561 |
| SAS External Affairs | 3615 Market St, Floor 2 | Juliana Walker | (215) 746-8250 |
| Compliance & Privacy | 3819 Chestnut Street | Holly Miller | (215) 614-1907 |
| LIFE | 4508 Chestnut Street | Cherry Sturdivant | (215) 573-7202 |
| Research Services | P-221 Franklin Bldg. | Lauren Oshana | (215) 573-6710 |
| Student Health | 3535 Market/Suite 100 | Jay Efrece | (215) 746-1010 |
| TRL | Suite 2000 125 S. 31st St. | Kelly Reynolds | (215) 746-8936 |
| SP2 | 3701 Locust Walk | Jennifer Jones | (215) 746-5895 |
| Abramson Cancer Research | 409 BRBII/III | James Riley | (215) 746-5520 |
| Comptroller's Office | 312 Franklin Building | Celestine Silverman | (215) 898-7593 |

Contact Isabel Mapp at sammapp@pobox.upenn.edu for additional information.

Penn Relays is around the corner. Hopefully, you can spare some time out of your busy schedules to help. Below are the hours of registration in the Levy Tennis Pavilion (Levy is located in back of the Palestra on the other side of the railroad tracks. You have to go over the walking bridge at the back of the Stadium). Please let us know about your availability by April 15. Detailed directions will be sent to the people that plan to volunteer at a later date.

Wednesday, April 24: 10 a.m. to 7 p.m.

Friday, April 26: 7 a.m. to 3 p.m. (may go longer)

Thursday, April 25: 7 a.m. to 5 p.m. (may go longer)

Saturday, April 27: 7 a.m. to 1 p.m.

After registration is over or slows down and you still want to help out, you can be sent to the track to be assigned to other areas. When you respond with your hours let me know your areas of interest. Please respond before April 15. Contact Isabel Mapp at sammapp@pobox.upenn.edu for additional information.

Join the Penn VIPS/Business Services Scholarship Committee: Volunteers Needed. Each year, a small group of volunteers provide non-tuition scholarships to offset college cost to graduating, college bound high school students with a history of service. The committee solicits and reviews applications, selects the award winners and plans the reception where the winners are recognized. The committee meets now until June approximately every three weeks. Meetings culminate with the annual awards reception usually held the first Tuesday in June. To join this exciting committee, email Isabel Mapp at sammapp@pobox.upenn.edu

To Friends of Philadelphia and The Ray of Hope Project: Will you come out and work with Ray for the Mayor's 6th Annual Spring Clean-Up, on Saturday, April 13 from 9 a.m. to 2 p.m. 1500 Volunteers—Imagine the impact we can have in one morning! See www.therayofhopeproject.org/mlkday.html Please email ROHProject@comcast.net to say you are coming. If you have a preference, let us know where you would prefer to work. It will be a fine morning and an even better afternoon when the work is done.

May Preview—Sayre High School Partnership Festival: 5800 Walnut Street, Volunteers Needed (between noon and 6 p.m.). As a continuation of its 20th anniversary celebration, on the afternoon of Thursday, May 2, the Netter Center will host a Partnership Festival at Sayre High School. This celebration of University-Assisted Community School partnerships will engage West Philadelphia children, youth, and families, as well as Penn students, staff and faculty. Activities to include relays and sports, healthy food demonstrations, educational games, youth performances such as drumline and dance teams, and more. Email Rita Hodges at the Netter Center at ritaa@upenn.edu or call (215) 898-5351.

Volunteer Now for the Broad Street Run: On May 5, Philadelphia Parks & Recreation will be hosting the Annual Blue Cross Broad Street Run. The success of the event depends on the volunteers from the Philadelphia area. As the race grows, so does our need for volunteers. Mark your calendars. We are looking for volunteer groups from local organizations on Friday, May 3 and Saturday, May 4 for the Race Expo at Lincoln Financial Field and also on Race Day, Sunday, May 5 along the race course. If you have any questions or would like more specific information you may contact Dennis Gibson at (215) 685-9887 or dennis.gibson@phila.gov. Please feel free to pass this information on to any organizations you think might be interested.

Green Week: March 22-30

This year's Green Week will take place March 22-30, with events hosted by Student Sustainability Association at Penn (SSAP) member groups each day. The activities will start with a World Water Day event on March 22, hosted by Amnesty International and UNICEF and with a celebration of PennCycle's first birthday. On Saturday, March 23, Power Up Gambia will host an event before Penn Environmental Group's political committee hosts the official Earth Hour event in Philadelphia. Sunday, March 24, Penn Garden will host a work day at 2 p.m. Monday-Thursday, Divestment at Penn will have a photo booth on Locust where members of the Penn community may show their support for divesting Penn's endowment from the fossil fuel industry. Wednesday, March 27, will be the weekly IES seminar. Friday, March 29, is packed with the semi-annual Greenfest and a Greeco-Reps fundraiser with PSR Quizzo; it is in collaboration with Green Acorn. Wrapping up the week, on Saturday, March 30, Kelly Writers House in collaboration with PennCycle, will host a literary bike tour. See www.upenn.edu/sustainability/news/celebrate-green-week-campus-events-march-22-30

Earth Hour at Penne: March 23

On Saturday, March 23, Penne Restaurant is celebrating Earth Hour to promote Global Sustainability. From 8:30-9:30 p.m. they will be joining thousands of others by turning out all the lights in the dining room and serving guests a three-course \$30 menu of globally abundant items in hopes of Uniting People to Protect Our Planet. Guests will enjoy this menu in the dining room delightfully lit by candles. For each guest that participates in this event, Penne's management team will contribute one hour of community service. To make a reservation: www.opentable.com/penne-restaurant-reservations-philadelphia?rid=2246&restref=2246 Visit EarthHour.org for more information.

Business Services: Report Online

The Business Services Division (BSD) of the University has recently completed its biennial report for 2011 and 2012 titled, *forward to the FUTURE*. The report provides readers with a snapshot of how BSD has "delivered on its commitment to provide high-quality service in a fiscally responsible manner all while supporting the Penn Compact." President Amy Gutmann's strategic vision for the future. The report is available on the BSD website, www.business-services.upenn.edu

Penn Ice Rink Survey

The Penn Ice Rink Survey is available online at www.upenn.edu/survey/icerink Please take a few minutes to take the survey, as it will assist the Ice Rink in improving services to the Penn community and external constituents. It is a convenient and easy way to make a difference in the rink's service efforts.

Sprint/Nextel Customers: Upgrade Devices by June 30; Special Offers Available Now

Per an agreement with the FCC, Sprint will remove Nextel services from its cellular network as of June 30, 2013. After this date, both corporate and individual customers with active Nextel devices will no longer be able to access Sprint's cellular network.

To avoid any disruption in service, all Nextel customers must upgrade to new Sprint devices. To assist Penn corporate customers through this transition, Sprint will provide comparable equipment under a special promotion at 99 cents per upgraded line, as well as an equipment buyback credit of \$25 per Nextel device through March 31, 2013. Please note that the buyback credit is available for Penn corporate accounts only.

If you have any questions about the upgrade process, please contact Joe Blaszczyk, Sprint regional account manager, at (215) 740-1686 or joseph.blaszczyk@sprint.com

Update

March AT PENN

CONFERENCES

22 *The Monk, the Priest, the Nun*; explore the role of monks, priests and nuns in literary texts and the visual arts; 9 a.m.-8 p.m.; Class of '55 Room, Van Pelt-Dietrich Library; photo ID required upon entry. *Continues March 23, 9:30 a.m.-7 p.m., Golkin Room, Houston Hall (Center for Italian Studies).*

23 *17th Annual Wharton India Economic Forum: Changing Seas: Steering for Growth*; panel discussion, startup pavilion, photography contest and performance by Penn Masala; 9 a.m.-6 p.m.; Penn Museum; tickets: \$169.79, \$64.29/Penn students and faculty, \$69.57/non-Penn students; register: <http://wief.eventbrite.com/> (Entrepreneurship, Knowledge@Wharton).

FITNESS/LEARNING

20 *A Pain in the Neck—Creating an Ergonomic Workspace*; noon; Benjamin Franklin Room, Houston Hall; PennKey required to register: <https://bit.ly/Xaf2oi> (Penn Environmental Health & Radiation Safety).

MEETINGS

21 *University of Pennsylvania Board of Trustees Budget & Finance Committee Meeting*; 10:30-10:45 a.m.; Benjamin Franklin Room, Houston Hall.

University of Pennsylvania Board of Trustees Executive Committee Meeting; 10:50-11 a.m.; Benjamin Franklin Room, Houston Hall.

SPECIAL EVENTS

27 *Annual Rental Housing Fair*; 11 a.m.-2 p.m.; Hall of Flags, Houston Hall (Off-Campus Services).

TALKS

19 *SLAP Presents: Food and Worker Justice—What is Kosher?*; Rabbi Ari Weiss, Uri L'Tzedek; 6 p.m.; Berkowitz Living Room, Hillel (Hillel).

20 *Merrin Distinguished Lecture Series: In Pursuit of Justice: The Lost Story of the Sudan*; John Prendergrast, Enough Project co-founder;

A Botanist in a Botanic Garden: Field and Laboratory Adventures

Dr. Susan Pell, director of science at the Brooklyn Botanic Garden, will present the Barnes Endowed lecture, *A Botanist in a Botanic Garden: Field and Laboratory Adventures*, on Sunday, March 24 at 2 p.m. at Morris Arboretum.

People often marvel at the idea of scientists working at public gardens and arboreta. Come on a botanical journey around the globe and through the lab as Dr. Pell shows some of the research she has conducted at The New York Botanical Garden and the Brooklyn Botanic Garden. She has participated in numerous international field expeditions to conduct molecular research on a diversity of topics from cashews to lilacs. In this lecture, she'll share stories from her adventures and talk about the role of botany in public gardens.

Join Morris Arboretum for this engaging talk followed by a reception with refreshments at the Widener Visitor Center. This lecture is presented annually with support from the Laura L. Barnes Horticulture Lecture Fund, and is free with admission, however reservations are required and space is limited. Please register at <https://online.morrisarboretum.org/classes/barneslecture> or by calling (215) 247-5777, ext. 125.

John Bul Dau, a Lost Boy of Sudan; 7:30 p.m.; Harrison Auditorium, Penn Museum (Africa Studies Center; Hillel).

21 *Eric and Beth Schlager Lecture in Real Estate Entrepreneurship*; Roy Hilton March, Eastdil Secured; 4:30 p.m.; Auditorium, Lauder-Fischer Hall (Zell/Lurie Real Estate Center).

27 *Resistance from the Margins—A Stephen Kaplan Memorial Lecture*; Vincent Brown, Harvard University; Brian DeLay, University of California-Berkeley; Eve Troutt-Powell, history; Steven Hahn, history; 5 p.m.; rm. 209, College Hall (Clio: The Penn History Graduate Student Group).

AT PENN Deadlines

The March AT PENN calendar is online at www.upenn.edu/almanac. The deadline for the weekly Update is each Monday for the following week's issue. The deadline for the May AT PENN calendar is April 16.

Information is on the sponsoring department's website. Sponsors are in parentheses. For locations, call (215) 898-5000 or see www.facilities.upenn.edu



Susan Pell conducting research in Costa Rica.

The 2013 Goldstone Forum

This year's Goldstone Forum keynote speaker, Molly Melching, will discuss *Changing Harmful Social Norms in Traditional Societies*. She is the founder and executive director of Tostan, an organization whose mission is to empower African communities with sustainable development, social transformation and respect for human rights. The forum will take place on Tuesday, March 26, at 4:30 p.m. in Huntsman Hall G06.

The Goldstone Forum is made possible by Steven F. Goldstone, C'67, former chairman of Nabisco Group Holdings. The Goldstone Fund, created from his gift to the PPE program at Penn, supports postdoctoral fellowships and lectureships, underwrites visiting professors, workshops and seminars, and funds PPE majors who are conducting research projects.

Almanac

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The University of Pennsylvania's journal of record, opinion and news is published Tuesdays during the academic year, and as needed during summer and holiday breaks. Its electronic editions on the Internet (accessible through the Penn website) include HTML, Acrobat and mobile versions of the print edition, and interim information may be posted in electronic-only form. Guidelines for readers and contributors are available on request and online.

| | |
|---------------------|---|
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The University of Pennsylvania values diversity and seeks talented students, faculty and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, color, sex, sexual orientation, gender identity, religion, creed, national or ethnic origin, citizenship status, age, disability, veteran status or any other legally protected class status in the administration of its admissions, financial aid, educational or athletic programs, or other University-administered programs or in its employment practices. Questions or complaints regarding this policy should be directed to Sam Starks, Executive Director of the Office of Affirmative Action and Equal Opportunity Programs, Sansom Place East, 3600 Chestnut Street, Suite 228, Philadelphia, PA 19104-6106; or (215) 898-6993 (Voice) or (215) 898-7803 (TDD).



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The University of Pennsylvania Police Department Community Crime Report

About the Crime Report: Below are all Crimes Against Persons and Crimes Against Society from the campus report for **March 4-10, 2013**. Also reported were 13 Crimes Against Property (8 thefts, 2 acts of vandalism, 1 burglary, 1 DUI, and 2 other offenses). Full reports are available at: www.upenn.edu/almanac/volumes/v59/n25/creport.html Prior weeks' reports are also online. —Ed.

This summary is prepared by the Division of Public Safety and includes all criminal incidents reported and made known to the University Police Department between the dates of **March 4-10, 2013**. The University Police actively patrol from Market Street to Baltimore Avenue and from the Schuylkill River to 43rd Street in conjunction with the Philadelphia Police. In this effort to provide you with a thorough and accurate report on public safety concerns, we hope that your increased awareness will lessen the opportunity for crime. For any concerns or suggestions regarding this report, please call the Division of Public Safety at (215) 898-4482.

| | | |
|----------|---------|------------------|
| 03/07/13 | 3:28 PM | 3800 Market St |
| 03/08/13 | 2:03 AM | 4000 Spruce St |
| 03/08/13 | 3:03 AM | 3801 Chestnut St |
| 03/09/13 | 5:18 PM | 3900 Sansom St |

| |
|-----------------------------------|
| Complainant struck in face/Arrest |
| Doorman struck in face by patron |
| Complainant struck in face |
| Complainant struck in face |

18th District Report

Below are all Crimes Against Persons from the 18th District: 4 incidents with 2 arrests (2 aggravated assaults, 1 burglary and 1 robbery) were reported between **March 4-10, 2013** by the 18th District covering the Schuylkill River to 49th Street & Market Street to Woodland Avenue.

The Crimes Against Persons from the 18th District for March 4-10, 2013 were not available at press time. They will be posted to the online version of Almanac at www.upenn.edu/almanac/volumes/v59/n25/creport.html

Teaching Large Physics Courses: Challenges and Rewards

Mirjam Cvetič

Large science introductory courses pose a special challenge for both students and instructors. A majority of the students enrolled in these courses have enrolled in them only because the course is a requirement for their respective major or for the general education requirements. On the other hand, the course topics cover the basics of the field, and while the material does not pose much of an intellectual challenge for instructors, it is critical that the students are given a solid grounding in the subject. Courses in physics, my field of expertise, face additional challenges due to specific conceptual approaches to problem solving and applications of mathematical techniques.

My colleagues and I are faced with these challenges when assigned to teach such large physics courses, which in my case are calculus-based core physics courses on Mechanics (PHYS-150) and Electromagnetics (PHYS-151). These courses are usually taken by engineering students, increasing numbers of pre-med students and students intending to major in physics, of course. The subjects covered are typically difficult and challenging for many students, since they introduce a number of more abstract concepts unfamiliar to them and employ calculus. While such courses are taught in multiple sections, with coordinated topics and common exams, specific sections often end up with more than a hundred students. Thus, the first challenge is that a majority of students do not connect with the course material, since these courses are only one of the requirements to achieve their career goals, and conceptual and technical difficulties (such as the extensive use of calculus) get in the way. On the other hand, the second challenge is that instructors too have a hard time connecting to the material, which is elementary for them and typically far removed from their actual research.

As an assistant professor at Penn, I had a bumpy start teaching such a large course. To some extent, it was due to my mistakenly using rather impersonal teaching methods inherited from my formal undergraduate education in Europe. In this regard, I would like to acknowledge a great piece of advice I received from Professor Walter Wales, who not only held an impressive number of leadership roles in the department of physics and astronomy, the School of Arts & Sciences, and the central University administration, but was also a wonderful teacher in the physics department and a great influence and mentor to me. At the early stages of my start in teaching, he told me something along these lines: "You have to connect with students at the beginning, during the first few lectures. If you manage to build a bond with them at that stage, students will forgive any later minor teaching lapses, such as a missed minus sign or a flawed experimental demonstration." I took his advice to heart, and it was transformative. I developed a teaching style that connects students with the material by bringing to lectures my own scientific experience and outlook. This approach turns out to be first of all rewarding for our students, but it has also become a very rewarding part of my academic career.

As a general strategy to achieve students' connection with the material, I strive to convey to students not only the core principles, but also to project my own enthusiasm and the perspective that drew me into studying physics and pursuing research in my field of theoretical high energy physics. I bring to lectures a personal outlook on the subject, which is not

available from most basic physics books. Furthermore, due to the specific challenges of physics, I hope to elucidate the core concepts of physics by connecting them to research topics of current interest whenever possible. As an example, from the perspective of my research in theoretical physics that involves the quest for unification of the fundamental forces of nature, I introduce electric and magnetic phenomena as the first example of such a unification. Even though research techniques in this field are mathematically advanced, students nevertheless get a glimpse into the quests of theoretical physics. My goal is thus to convey to students how the topics of this basic physics course relate to the underlying methods and goals of theoretical physics and how similar approaches can be applied to other fields of research they may encounter in their professional life.

Of course a detailed implementation of a general goal to build a connection between the students and the material requires a thoughtful process and thorough preparation for the course as a whole and for each lecture specifically. At the beginning of each course, the rules and requirements should be clearly spelled out. An outline of the course with the syllabus and detailed expectations should be handed out as well as posted on Blackboard. I try to prepare each lecture as a rounded presentation of the specific topic. In physics, it is important to distill a particular topic to a key concept and not to overburden it with too many tangential examples and verbal explanations. I demonstrate these core principles on a carefully chosen prototype example that shows comprehensively the complexity of the subject. Such prototype examples should also reflect the level of the problems in the exams. Problems for homework assignments should be chosen to clarify the students' knowledge of the topic and to challenge them enough to make them proficient and confident in the subject matter. Similar care should be taken with experimental demonstrations to complement the problems.

Other specific tools appropriate for large physics courses are the old-fashioned blackboard and high-quality colored chalk. Unlike some large lecture courses, I typically do not use PowerPoint or other high-tech equipment, since core physics topics are conceptual and require detailed mathematical derivations. A number of my colleagues and I use colored chalk to highlight, emphasize, and differentiate specific concepts. In my experience, students appreciate these tools, since they help students organize their thought processes and prepare them well for the exams where they have to use their own handwriting to solve specific problems.

Above all, it is important for instructors to engage the students during class and project our enthusiasm for our respective fields of research. It is key that we bring in our genuine personal experience and outlook which also naturally builds a bridge between the instructor and the students. Furthermore, being available outside the class to help and support students and to build a personal bond with them is an important part of our mission. I believe our students are a wonderful group of future professionals, scientists and leaders. While they may not be necessarily interested in the subject which they have to master for a specific required course, they are smart and driven achievers, and as instructors we can make an impact on their future endeavors by conveying to them the knowledge, scientific methods and excitement of our specific field of research.

Mirjam Cvetič is the associate chair for undergraduate affairs in physics and astronomy in SAS and the Fay R. and Eugene L. Langberg Professor. Last year, she won both SAS's Ira H. Abrams Award for Distinguished Teaching and the University's Lindback Award for Distinguished Teaching.

This essay continues the series by the Center for Teaching & Learning that began in the fall of 1994 as the joint creation of the College of Arts & Sciences and the Lindback Society for Distinguished Teaching.

See www.upenn.edu/almanac/teach/teachall.html for the previous essays.