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Celebrating the Opening of Penn's Krishna P. Singh Center for Nanotechnology

The University of Pennsylvania officially opened the region's premier facility for advanced research, education and innovative public/private partnerships in nanotechnology last Friday. The 78,000 square-foot Krishna P. Singh Center for Nanotechnology will serve as the University's focal point for groundbreaking work in the emerging field of nanotechnology, which involves the manipulation of matter on an atomic and molecular scale.

The potential benefits of nanotechnology range from regenerative medicine and targeted drug delivery systems, to innovative new approaches in creating and storing electricity that could virtually eliminate the use of fossil fuels, to highly efficient ways of harvesting fresh water from seawater, to everyday commercial products that make clothes last longer, golf balls fly straighter and personal computers operate more efficiently.

"The Singh Center positions Penn to become our nation's leader in nanoscale science, education and research," said Penn President Amy Gutmann. "This is a stunning building that will bring together eminent Penn researchers and experts in private industry with state-of-the-art laboratories and production facilities. Nanotechnology is a vital field with tremendous momentum and vast opportunities for innovation and positive impact locally, nationally and globally. The Singh Center is a critically important part of Penn's mission to advance both basic discovery and the application of those discoveries to improve society."

Faculty from the School of Engineering & Applied Science, the School of Arts & Sciences and across the University will make use of the Singh Center's characterization and fabrication suites. Each of the two 10,000-square-foot facilities is filled with state-of-the-art equipment and designed to enable the high-precision techniques that research at the smallest scales necessitates.

The characterization facility is situated on bedrock, 18 feet below the surface, to help minimize vibrations that would interfere with its various atomic and electron microscopes. Its labs are also designed to be isolated from temperature fluctuations, atmospheric turbulence and electromagnetic noise.

The fabrication facility on the Singh Center's ground floor contains a next-generation cleanroom. Once in isolation garb, researchers will use its assembly tools to grow carbon nanotubes, deposit graphene and etch microelectronic systems, among many other applications. The facility's photolithography equipment is shielded from interfering ultraviolet light by a pane of marigold glass, which gives the Center its signature color.

"Penn's world-class researchers need world-class facilities to advance their groundbreaking work," said Dr. Eduardo Glandt, dean of the School of Engineering & Applied Science. "Likewise, the Singh Center will play a key role

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Dr. Krishna P. Singh, GME'69, GR'72, Penn alumnus, Penn trustee and Penn Engineering overseer, in front of the newly dedicated Krishna P. Singh Center for Nanotechnology after Friday's dedication and ribbon cutting ceremony. Dr. Singh's transformative gift to Penn in 2007 was rooted in his desire to show his gratitude to Penn and those whose generosity enabled him to pursue his graduate studies here since his three years at Penn transformed him. He said people believe in technology and it "will change the human condition for the better."

\$8.6 Million Grant to Penn to Lead Multi-Institution Collaboration to Unravel Anesthesia's Method of Action

A research team led by scientists at the University of Pennsylvania has received \$8.6 million over the next five years in renewed grant support from the National Institutes of Health (NIH) to lead a multidisciplinary, multi-institution research program that is working to unravel the mysteries of anesthesia. The team is comprised of top medicine, chemistry and biology researchers at Penn's Perelman School of Medicine and School of Arts & Sciences, as well as colleagues from across the Philadelphia region and Pittsburgh.

"Inhaled anesthetics are considered one of the most important medical advances of all time and are administered to over 200 million people per year worldwide. Despite their clear importance, universal acceptance and recognized dangers, the mechanisms of their action continue to be enigmatic," said principal investigator of the program, Roderic Eckenhoff, vice chair for research, Austin Lamont Professor of Anesthesiology and Critical Care in the Perelman School of Medicine. "This renewal of grant funding from the NIH will advance our understanding of the key protein targets of anesthetics and help us to better identify promising new agents."

Researchers have determined that the primary, beneficial effects of anesthesia—analgesia, amnesia and immobility—are brought about by modulating the activity of specific membrane

proteins in the neuronal membrane. However, the exact proteins and how they are altered is still largely unknown, and yet critically important to improving the drugs. Progress has been slow, in part because of the many protein targets affected by these drugs and the difficulty of studying them at the most detailed, atomic level.

Dr. Eckenhoff and his colleagues have developed a wide variety of experimental and computational approaches to study inhaled anesthetics binding to proteins and the structural and dynamic consequences, with the hope of validating a clear pathway for how these medications put patients under. This multidisciplinary team has been collaborating on this area of research for more than 14 years and has established that multiple different protein targets contribute to

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October 2 Council Meeting Coverage

Last Wednesday, when the University Council met for the first time this academic year, President Amy Gutmann reappointed the moderator: Dr. Reed Pyeritz, William Smilow Professor in the Perelman School of Medicine. Dr. Gutmann also announced the appointment of a new parliamentarian: Lauren Steinfeld, senior advisor for privacy and compliance in the Office of Audit, Compliance and Privacy.

Senate Chair Dwight Jaggard announced the Focus Issues that will be presented this year: *Climate Change*: December 4; *Campus Security and Emergency Procedures*: January 29; findings of the *Commission on Student Safety, Alcohol and Campus Life*: February 19 and *Diversity at Penn*: March 26. He mentioned that there will also be two Open Forums, one at the October 30 meeting and the other at the February 19 meeting.

Provost Vincent Price introduced the discussion of the 2013-2014 Academic Theme Year: *The Year of Sound*, noting that sound is a critical aspect of daily life and central to all academic disciplines. Then, Vice Provost for Education Andy Binns elaborated, saying that the goal is to stimulate thought across disciplines. *The Book*

of Rhymes: The Poetics of Hip Hop was discussed by freshmen at the beginning of the semester during New Student Orientation's Penn Reading Project which launched the Theme Year (*Almanac* April 9, 2013). David Fox, the director of NSO, said that for this year—the seventh theme year—there are several courses being offered including Auditory Cultures, American Dialects, Hearing Africa, and Music & the Brain. He also mentioned the Penn Museum's exhibit *Hollywood in the Amazon*, that spotlights the world's first sound-synced expeditionary film that was shot in 1931 in the jungle.

There will be a TEDxPenn event: *Creating the Sound*, bringing together “diverse voices and perspectives from diverse fields, such as arts, business, design, education, engineering, linguistics, medicine, music and psychology. Speakers will demonstrate how the combination of sounds from various fields comprises the harmonious melody of achievement.” For information about this and other events as well as the grants for the spring see: www.yearofsound.org

Suggestions for a PRP book and for related programs are being sought by Mr. Fox for next year's theme which will be the *Year of Health*.

Investors and Start-Ups On Board for New Education Fund Initiative Created in Collaboration with GSE

Penn's Graduate School of Education (Penn GSE) has announced that the Education Design Studio, Inc. (EDSi), a \$2.1 million hybrid incubator and seed fund built specifically for education ventures, launched September 23 in Philadelphia. The fund, which nurtures five early stage start-ups, is a one-of-a-kind collaboration between Penn GSE and a host of seasoned venture capitalists and investors. EDSi represents a new paradigm for investors, with a model that blends the best elements of an incubator, design studio, seed fund and social impact company.

Investors include Ben Franklin Technology Partners of Southeastern Pennsylvania; McGraw-Hill; Ron Packard of K12 Inc.; Drs. Steve and Jessica Melman from Dermazoo; John H. Cammack, managing partner of Cammack Associates; John Katzman, CEO of The Noodle Companies LLC; the Brigitte and Donald Manekin Family Fund; Gregory Milken; Richard Binswanger, President/CEO of Away To Donate; Dr. Wallace Boston, CEO of American Public Education, Inc.; and Eric Aroesty of Gabriel Investments.

Five start-ups participated, including Api-dapter, ApprenNet, Autism Expressed, Raise Labs and scrible.

“Education Design Studio, Inc. offers education start-ups the chance to collaborate with established and successful investors, researchers, practitioners and entrepreneurs—all of whom are deeply committed to innovation in education,” said Andy Porter, dean of Penn GSE. “It's a natural fit for Penn GSE because its emphasis on incorporating cutting-edge education research into innovative education start-ups plays to our strengths, including building upon our success with the Milken-Penn GSE Education Business Plan Competition.”

“Education Design Studio, Inc. will be an exciting venture, building on our City's goal to provide a high-quality education for every student, the University of Pennsylvania's Graduate School of Education's research work and the entrepreneurial spirit of our many civic innovators,” said Mayor Michael A. Nutter. “I am looking forward to the development of EDSi's education-based start-ups and the potential to test

out many of their ideas and tools in Philadelphia.”

EDSi works with stakeholders in the investment and publishing communities and with the best providers of curriculum and programs to incubate edtech and education entrepreneurs. EDSi's singular focus on education is designed to increase the success rate for start-up and early stage ventures through a number of distinct advantages, including connecting research to practice; providing a unique funding model; providing opportunities to test start-up ideas in actual classrooms in Philadelphia, schools and corporate learning environments; and connections to the world-class Penn GSE faculty. Penn GSE's unique collaboration with EDSi continues the school's efforts to help education research impact practice in innovative ways. By accessing the world-renowned faculty of the University of Pennsylvania as well as providing opportunities for graduate students to connect with EDSi, Penn GSE hopes to create a truly unique and valuable experience, with the opportunity to invite other researchers and students to connect with future cohorts.

EDSi is strongly linked to the successful Milken-Penn GSE Education Business Plan Competition (EBPC) and has extended invitations to winners and finalists of the 2013 EBPC to participate in the six-month Design Studio program. Participating ventures will receive \$10,000 upon acceptance into the program, with opportunities for additional gap funding upon their “graduation” from the six-month program. This support will be in addition to any prize money awarded through the EBPC. The first EDSi cohort began with the Design Studio program September 23.

The EBPC competition was launched in 2010 as a joint effort between Penn GSE and the Milken Family Foundation, and was the first-ever funded education business plan competition. The Competition has also earned a name for itself by attracting innovative ideas from around the world and spotting winning education innovations. Three 2012 finalists landed spots on the 2013 *Forbes Magazine* “30 Under 30” list of Gen-Y thought leaders who are reinventing education.

Singh Center Opening

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in growing our faculty and research expertise for years to come.”

Beyond serving faculty in engineering, physics and chemistry, the Singh Center was built to spark interdisciplinary inquiry. An inviting gateway at the eastern entrance to campus, the Center is already opening doors to new research throughout Penn's 12 schools.

“The Singh Center's facilities will allow researchers from a range of fields to analyze structure in the finest possible detail, from anthropologists working with ancient artifacts to biomedical researchers developing therapeutic molecules,” said Dr. Steven Fluharty, dean of the School of Arts & Sciences. “Its impact will be felt far beyond the field of nanotechnology.”

The Singh Center will also help Penn-developed technology move from the lab to the marketplace via connections with local industry development leaders such as the Nanotechnology Institute and Ben Franklin Technology Partners, as well as Penn's internal commercialization engine, the Center for Technology Transfer. Existing industry members, from pharmaceutical companies to computer chip designers, will also make use of the Singh Center's characterization and fabrication facilities.

“The Singh Center is one of the few places in the world where you can find this kind of equipment and expertise in the heart of a major metropolitan city,” said Dr. Mark Allen, the Singh Center's scientific director. “In addition to enabling world-class research and providing outstanding educational opportunities in nanotechnology, we aim to be a two-way street for entrepreneurship and innovation.”

Ed. Note: See photos on page 8.

Collaboration to Unravel Anesthesia's Method of Action

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the desired effect of anesthesia and that within each target, multiple binding sites, each with different influences on the target, exist. These complex, multilayered events are then integrated to produce the behavioral state of anesthesia. “Kind of like an orchestra,” said Dr. Eckenhoff, “each has an important contribution, but knocking out any given member has only a small effect on the music; many need to be silenced in order for the music, like consciousness, to dissipate.”

The research program includes five projects and two cores. In addition to Dr. Eckenhoff, program collaborators include: J. Kent Blasie, Walter H. & Leonore C. Annenberg Professor in the Natural Sciences, SAS, Penn; William P. Dailey and Ivan J. Dmochowski, both associate professors of chemistry, SAS, Penn; Manuel L. Covarrubias, professor of neuroscience, Thomas Jefferson University Farber Institute for Neurosciences; Michael Klein, dean, Temple University College of Science and Technology; Patrick Loll, professor of biochemistry and molecular biology, Drexel University College of Medicine; Grace Brannigan, assistant professor of physics, Rutgers University; and Yan Xu, and Pei Tang, both professors of anesthesiology and structural biology, University of Pittsburgh School of Medicine.

The renewed grant funding will continue their work aimed at achieving an understanding of the molecular pharmacology of currently used general anesthetics and then utilizing this understanding to improve current drugs and discover new compounds for better patient care.



SYMPOSIUM 2013

Engaging Students Through Technology Symposium: November 1

Better Face-to-Face Time—a symposium for faculty, instructors and teaching assistants— will be held on Friday, November 1, from 10 a.m. to 4 p.m., in the Kislak Center for Special Collections, Rare Books and Manuscripts on the sixth floor of the Van Pelt-Dietrich Library Center.

Penn Libraries' David B. Weigle Information Commons is pleased to host their sixth annual *Engaging Students Through Technology Symposium*.

Face-to-face time for Penn faculty with Penn students is precious, and faculty are increasingly reconsidering what happens during this time. Some faculty are exploring activities that engage students with practices in the discipline during class time so faculty can guide students in the moment. New courseware and online learning technologies can help improve face-to-face time. Faculty can now create high-quality content for students to explore before entering the classroom. The "flipped classroom" metaphor is attracting attention around campus, as is the new Structured, Active, In-class Learning (SAIL) program.

Some questions emerge for faculty:

- How can technology change what happens in the classroom?
- How can we best use our face-to-face time with students?
- How can we support all learners during face-to-face time?
- How can we ensure that students do what is needed out of class to be fully prepared during class?

The symposium includes a student panel, a faculty panel, workshops and a lightning round for sharing ideas. The faculty panel will include Jane Dmochowski (Earth and Environmental Sciences), Christina Frei (German), Paul Heinley (Physics), Frances Rust O'Connell (Graduate School of Education) and Jerry Wind (Wharton). The student panel will be facilitated by Andrew Lamas (Urban Studies).

Discussion will build on perspectives collected from an open student survey at <http://tinyurl.com/studentsymp2013>

The program is designed for faculty, teaching staff and graduate students, and is co-sponsored by the Center for Teaching and Learning, the Penn Language Center, the Weingarten Learning Resources Center (VPUL) and SAS Computing.

For more information and to register, visit: <http://wic.library.upenn.edu/wicshops/penn-edutech2013.html>

Please send questions to wic1@pobox.upenn.edu

Almanac on Penn Mobile Website

Almanac is available on Penn's mobile website, in addition to *Almanac's* other familiar paper-free options such as the website, RSS Feed and weekly *Express Almanac* email. Choose "*Almanac*" under the category of "News" from the mobile site's homepage, <http://m.upenn.edu>

Proposals for Fall 2014 Art & Culture Freshman Seminars: November 1

Penn's Art and Culture freshman seminars are small discussion-based classes designed to introduce incoming first-year students to the wealth of exciting art and culture opportunities available both in the city of Philadelphia and through Penn's academic programs and cultural centers. The College of Arts and Sciences will roster five of these seminars, and each course will receive up to \$3,000 to cover the cost of tickets, admissions, transportation and class speakers. This funding may not be used to purchase basic course materials or to cover the cost of instructors. Students who enroll in Art and Culture freshman seminars will automatically receive a *Campus Philly Cultural Passport*, giving them discounted access to a variety of city-wide cultural opportunities all year. All freshman seminars also fulfill College General Education Requirements.

Please submit a one-page proposal for the seminar, including a budget and a list of the venues that will be visited and the ways in which students will become involved with them. Preference will be given to those applications that engage students in one or more of Penn's Art and Culture centers (see <http://provost.upenn.edu/initiatives/arts/centers>) in addition to the wider resources of the city. Applications must include an email from the applicant's department chair confirming that the proposed course does not conflict with the department's rostering plans. Please email proposals as a single PDF to Brooke Sietinsons at sietinso@sas.upenn.edu no later than *November 1, 2013*.

Employee Resource Fair: October 10

The Penn Professional Staff Assembly and Weekly-Paid Professional Staff Assembly, in conjunction with the Office of the EVP and Human Resources, would like to invite all staff to attend the annual Employee Resource Fair and Volunteer Fair on October 10 from noon-2 p.m. in Bodek Lounge and the Reading Room of Houston Hall. The fair showcases University vendors and departments. Attendees have the opportunity to win some great prizes. There is no fee or registration required to attend unless you wish to host a table. Questions about the fair may be directed to pssa@exchange.upenn.edu

If you wish to host a table and have not yet registered, please do so immediately. To inquire about availability, email Holly Marrone at holllyld@upenn.edu

We look forward to seeing you on October 10.
—PSSA, WPPSA

Green Fund Applications: October 31

The Penn Green Fund welcomes ideas from the Penn community about ways to improve the University's environmental performance and reduce campus emissions. An initiative of Penn's Green Campus Partnership and funded by the Division of Facilities and Real Estate Services, the Green Fund is designed to seed innovative ideas from Penn students, faculty and staff with one-time grants of as much as \$50,000.

Proposed projects must support goals and objectives outlined in Penn's Climate Action Plan, a long-range strategy launched in 2009 to reduce the University's carbon footprint and enhance its overall sustainability. Visit the Green Campus Partnership website at www.upenn.edu/sustainability for guidelines and to download the application. Descriptions of projects that have won past funding are also available on the website.

Faculty interested in developing such a course should feel free to reach out to the following representatives of Penn's Art and Culture centers:

• ICA:

Eliza Coviello, ecovi@ica.upenn.edu

• Penn Museum:

Steve Tinney, stinney@upenn.edu

• Annenberg Center:

Michael Rose, mjrose@ac.upenn.edu

• Kelly Writers House:

Al Filreis, afilreis@writing.upenn.edu,

Gregory Djanikian, djanikia@writing.upenn.edu

• Penn Libraries:

Martha Brogan, brogan@pobox.upenn.edu

• Arthur Ross Gallery:

Lynn D. Marsden-Atlas

(for academic purposes), lmattass@upenn.edu;

Sara Stewart (events), sabrady@upenn.edu

• Morris Arboretum:

Miriam P. Von Essen, miriamv@upenn.edu

• WXPN:

Roger LaMay, roger@xpn.org

SPIRiT Consortium Call for Ideas: October 28

The SPIRiT Consortium is looking for broad-based, high impact ideas for clinical and translational research projects which can be conducted across all six SPIRiT partner institutions.

The SPIRiT (Sharing Partnership for Innovative Research in Translation) Consortium is a partnership among Clinical and Translational Science Award (CTSA) sites including Johns Hopkins University, University of Chicago, University of Pennsylvania, University of Pittsburgh, Washington University in St. Louis and Yale University. This group was assembled in support of a primary focus of the CTSA program which is to foster collaborations across the member institutions to develop high impact research.

The consortium is interested in supporting at least one clinical and translational science project that will require the contribution of collaborators at each of the six SPIRiT sites. An ideal project will focus on a common area of interest or expertise and play to the individual strengths of each institution, therefore, individual collaborator contributions may vary from site to site. For example, for a clinical trial not all sites would have to enroll participants. The ideas collected will be compared across sites by the SPIRiT Directors and an invitation to submit a full proposal will be issued to those projects agreed upon by the Directors.

Funding: One award for up to \$300,000 direct costs

Timeline:

Idea Deadline: *October 28, 2013*

Invitation to Submit Full Application: *November 18, 2013*

Application Deadline:

January 17, 2014

Award Start Date: *April 1, 2014*

Questions may be directed to

Lorri Schieri, schieril@upenn.edu or

Jason Molli, molli@upenn.edu

Please visit www.itmat.upenn.edu/funding.shtml#InternalFundingOpp to view the instructions for submitting ideas.

Honors & Other Things

75th Anniversary Medal: Dr. Ayyaswamy

Dr. Portonovo Ayyaswamy, Asa Whitney Professor of Dynamical Engineering in the department of mechanical engineering and applied mechanics in the School of Engineering & Applied Science, received the 75th Anniversary Medal of the ASME Heat Transfer Division this summer “in recognition of his service to the heat transfer community and contributions to the field.” Dr. Ayyaswamy’s research is in the area of mechanical engineering, with foci in modeling, simulations and experimentation of multi-phase flow/heat and mass transfer.

Fellowship in Berlin: Dr. Babou

Dr. Cheikh Anta Babou, associate professor of history in the School of Arts & Sciences, is a fellow at the Wissenschaftskolleg (Institute of Advanced Study) in Berlin for the 2013-2014 academic year. Dr. Babou is examining the experience of immigrants from the former French colonies in West Africa in Europe and North America, arguing that they have been particularly successful in making room for Islam in the Western world. In contrast to Arab immigrants who have severed their links with moderate centers of Islamic spirituality in North Africa, West Africans have maintained strong bonds with sources of religious knowledge and authority in Africa, and these sources remain powerful shapers of their Islamic identity.

Infectious Disease Award: Dr. Brisson

Dr. Dustin Brisson, assistant professor of biology in the School of Arts & Sciences, is a recipient of the 2013 Burroughs Wellcome Fund’s Investigators in the Pathogenesis of Infectious Disease award. The award includes \$500,000 over five years. Dr. Brisson studies the evolution of infectious diseases, research that lies at the interface between evolutionary biology, microbial ecology and molecular genetics.



Dustin Brisson

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International Prize: Dr. Cavanna

Dr. Thomas Cavanna, a lecturer in the School of Arts & Sciences’ International Relations Program, received the Jean-Baptiste Duroselle Prize for his dissertation “American Foreign Policy Towards India and Pakistan in the 1970s.” His work identifies four turning points of US foreign policy in the subcontinent during the decade. Named after a French diplomatic historian, the Duroselle Prize is granted in France each year by a jury of academics to a dissertation on the history of international relations.

Pew Scholar in the Biomedical Sciences: Dr. Giraudo

Dr. Claudio Giraudo, assistant professor of pathology and laboratory medicine, Perelman School of Medicine and The Children’s Hospital of Philadelphia, was named a 2013 Pew Scholar in the Biomedical Sciences. Dr. Giraudo will receive \$240,000 over four years to pursue his research projects without direction or restriction.

Twenty-two of the nation’s most enterprising researchers were named Pew Scholars by The Pew Charitable Trusts. The scholarships provide flexible funding to early-career scientists researching the basis of perplexing health problems.

Dr. Giraudo’s research aims to understand intracellular membrane trafficking and calcium-regulated exocytosis in eukaryotic cells.

American Historians: Dr. McCurry

Dr. Stephanie McCurry, Christopher H. Browne Distinguished Professor of History in the School of Arts & Sciences, has been elected to the Society of American Historians. Their selection is based on a demonstrated commitment to the concept of literary distinction in the writing and publishing of history and biography.

Dr. McCurry is a specialist in 19th century American history, with a focus on the American South and Civil War era and the history of women and gender.

Penn Alumni Reunion Gifts 2013

Fourteen reunion classes and the Class of 2013 presented checks during Alumni Weekend in May. Total Penn Fund (TPF) gifts and pledges include gifts to The Penn Fund Unrestricted Fund, class projects and individual endowed scholarships. The Total Class Achievement pledges include all gifts made to Penn, University-Wide, by members of the class during their reunion year. For information on the Penn Fund, see their website at www.alumni.upenn.edu/pennfund

Class Year	Reunion	TPF Donors	TPF Gifts and Pledges	Total Class Achievement University-Wide	Gifts to Individual Endowed Scholarship Funds	Dollars to Individual Endowed Scholarship Funds	TPF Fundraising Projects
2013	Seniors	1,781*	\$47,334	\$0	0	\$0	The Penn Fund
2008	5th	667*	\$217,595	\$541,450	0	\$30,637	The Penn Fund
2003	10th	540	\$1,387,845	\$1,528,817	8	\$1,049,835	The Penn Fund
1998	15th	446	\$2,626,597	\$3,399,609	7	\$2,007,415	The Penn Fund
1993	20th	633	\$4,094,825	\$5,053,706	16	\$2,967,015	The Penn Fund
1988	25th	620	\$8,843,901	\$15,848,662	25	\$7,428,167	McClelland Hall Study Space and Class of 1988 Scholarship
1983	30th	508	\$7,168,963*	\$24,548,290	19	\$5,716,599	Netter Center Fall Internship and Study Space at Educational Commons—Weiss Pavilion
1978	35th	491	\$2,671,811*	\$22,632,598*	11	\$2,142,210	Library Scholars Alcove, Netter Center Internship and Faculty Office
1973	40th	404	\$1,456,797	\$6,398,309	5	\$1,102,793	Class of 1973 Scholarship
1968	45th	405	\$678,104	\$4,821,814	2	\$233,501	Weigle Information Commons Group Study Room and 1968 Class Scholarship
1963	50th	391	\$1,281,209	\$10,506,034	2	\$724,211	Lea Library Renovation Fund
1958	55th	245	\$361,289	\$1,230,443	2	\$219,508	The Penn Fund
1953	60th	261	\$291,706	\$24,195,560	3	\$186,495	The Penn Fund
1948	65th	148	\$39,800	\$198,189	0	\$25	The Penn Fund
1943	70th	63	\$22,916	\$5,553,525	0	\$0	The Penn Fund
Total		7,603	\$31,190,692	\$126,457,006	100	\$23,808,411	

* Reunion Record

The Class of 2013 has set a new record for *Seniors for The Penn Fund* with 1,781 donors, roughly 85% of the senior class.

The Class of 2008 set a new record for number of donors in a 5th reunion.

The Classes of 1978 and 1983 set new records for the 35th and 30th reunions for pledges to The Penn Fund in a reunion year.

The Class of 1978 set a new record for total class achievement in a 35th reunion.

White House Honor: Dr. Noel



William Noel

Dr. William Noel, director of Penn Libraries' Kislak Center for Special Collections and founding director of the Schoenberg Institute for Manuscript Studies, was honored as one of 13 Champions of Change who are promoting and using open scientific data and publications to accelerate progress and improve our world.

The White House Champions of Change was created as part of President Obama's 'Winning the Future' initiative. Through this program, the White House highlights individuals, businesses and organizations whose stories and accomplishments positively impact our communities.

Nursing Hall of Fame: Dr. Richmond

Dr. Therese Richmond, Andrea B. Laporte Endowed Professor of Nursing, was inducted into the International Nurse Researcher Hall of Fame during a ceremony this summer in Prague. The International Awards for Nursing Excellence honor the accomplishments of nurses who are members of Sigma Theta Tau International, the Honor Society of Nursing. Her research focuses on the intersection of physical and mental health after traumatic injury and its effect on recovery.

AGA President: Dr. Rustgi

Dr. Anil K. Rustgi, T. Grier Miller Professor of Medicine and chief of gastroenterology at the Perelman School of Medicine, has been elected president of the American Gastroenterological Association (AGA) Institute. He previously served as vice-president and president-elect. The AGA Institute administers the practice, research and educational programs of the organization.

Gold Medal: Professor Rykwert

Joseph Rykwert, Paul Philippe Cret Professor Emeritus of Architecture at the School of Design and professor of history of art in SAS, was named the recipient of the 2014 RIBA Royal Gold Medal—one of the world's most prestigious architecture awards.

Given in recognition of a lifetime's work, the Royal Gold Medal is approved personally by Her Majesty the Queen and is given to a person or group of people who have had a significant influence "either directly or indirectly on the advancement of architecture." The award will be presented in February 2014.

Outstanding Investigator: Dr. Werner

Dr. Rachel Werner, associate professor of medicine in the Perelman School of Medicine and LDI Senior Fellow, won the 2013 American Federation of Medical Research (AFMR) Outstanding Investigator Award. The honor, which comes with a \$5,000 honorarium, singles out a person age 45 or younger judged to be the most outstanding medical scientist in any field.

Chapter of the Year: Penn HSC

The University of Pennsylvania Hindu Student Council (HSC) was named "chapter of the year" by the National Hindu Student Council. The Penn HSC chapter was recognized for excellence in campus ministry to and with the University's Hindu population. During the school year, the group holds many events to celebrate their heritage and religion.

Sphinx Senior Society Honors

At the Sphinx Senior Society's annual Spring Banquet, *Dr. Ezekiel "Zeke" J. Emanuel* was inducted as its 2013 Honorary Sphinx. Dr. Emanuel is the Diane v.S. Levy and Robert M. Levy University Professor, Vice Provost for Global Initiatives and chair of the department of medical ethics & health policy.

The oldest honor society at the University of Pennsylvania also welcomed the new Sphinx Class of 2014, celebrated the graduating Sphinx Class of 2013, and awarded the 2013 Paul Miller Leadership Award to *Alec Miller*, EAS'13, W'13.

The Sphinx Senior Society Board of Governors established the Paul Miller Leadership Award to honor the memory of the late Paul Miller, C'83, and a former Penn trustee (*Almanac* November 2, 2010).

Alec Miller received the Paul Miller Leadership Award for his outstanding campus and public service leadership in several positions, including Chairman of the Nominations and Elections Committee of the University Council, member of the Engineering Student Activities Council and a Management 100 teaching assistant.

Pew Center for Arts & Heritage Fellows

Four from Penn were named 2013 Pew Fellows by the Pew Center for Arts and Heritage. *Hafez El Ali Kotain* and *Kinan Abou-afach*, instructors and performers for the University of Pennsylvania Arab Ensemble, are fellows in music. *Karen M'Closkey*, assistant professor, and *Keith VanDerSys*, lecturer, both in the department of landscape architecture in PennDesign, are fellows in design.

The Center annually awards up to 12 fellowships of \$60,000 to artists of exemplary talent in the five-county Philadelphia area through its Pew Fellowships program, established by The Pew Charitable Trusts.

Mr. Kotain, a percussionist, performs with Al-Bustan's resident takht ensemble and Intercultural Journeys, an organization that seeks to bridge cultural divides through the arts and live performance. Mr. Abou-afach, a cellist and composer, performs extensively with Al-Bustan Seeds of Culture and continues to seek opportunities for cross-pollination between Arab, European and American styles and traditions.

Professor M'Closkey and Mr. VanDerSys, are the first landscape architects to win the fellowship since its inception in 1991. The founders of PEG office of landscape + architecture, an award-winning design and research practice based in Philadelphia, will use the funds to expand on their work with the Philadelphia Water Department and the Pennsylvania Horticultural Society to explore the feasibility of their site-based installations as options for city-wide maintenance and stormwater programs. They also intend to expand the educational component of the installations through a series of classroom and on-site workshops within the Philadelphia school system.



Photograph by Marguerite F. Miller

Above, Penn Police Officer Julie Wesley with her new canine partner, Socks, at the graduation ceremony held during the Penn Vet Working Dog Center's one-year anniversary event. Socks has joined Penn Police as its first canine cadet (*Almanac* August 27, 2013). The event highlighted the program's achievements and included live search demonstrations.

Institute for Advanced Study Fellows

Three professors from Penn's School of Arts & Sciences received fellowships from the Institute for Advanced Study (IAS) in Princeton to pursue their research full time.

Dr. David Grazian, associate professor of sociology, and *Dr. Vanessa Ogle*, assistant professor of history, have been named 2013-2014 Fellows to School of Social Science. *Dr. Paul Goldin*, professor of Chinese thought in the East Asian languages and civilization department, is a Fall 2013 fellow in the School of Historical Studies.

During his sabbatical year of residence, Dr. Grazian will complete a book manuscript on metropolitan zoos as repositories of culture as well as nature. The book is tentatively titled *Where the Wild Things Aren't: City Zoos and the Culture of Nature*.

Dr. Ogle is working on her first book, a global history of time reform during the late 19th century entitled *Contesting Time: The Global Struggle for Uniformity and Its Unintended Consequences*.

Dr. Goldin, named the Willis F. Doney Member of the IAS, is working on a history of early Chinese philosophy focused on eight texts from the classical period: *Analects of Confucius*, *Mozi*, *Mencius*, *Laozi*, *Zhuangzi*, *Sunzi*, *Xunzi* and *Han Feizi*.

\$1.28 Million Grant from the Leon Levy Foundation Fosters Collaboration Around the Ancient Site at Ur in Iraq

The British Museum and the Penn Museum are embarking on a dynamic digital collaboration, made possible with \$1.28 million in lead support from the Leon Levy Foundation that will provide unprecedented access to the archaeology of the ancient kingdom of Ur. This new online resource will open the remarkably successful Mesopotamian excavations conducted by Sir Leonard Woolley on behalf of both museums from 1922 to 1934—excavations which brought to light some of archaeology's most extraordinary and famous finds—to scholars and the public alike.

At the time, the public was riveted by the opulence and drama of a 4,500-year-old Royal Cemetery at Ur (in modern-day Iraq), where rulers were discovered accompanied by attendants, soldiers laid out with spears and helmets and musicians with instruments. Woolley's excavations uncovered a rich history of this great city, told through objects of royal and of daily life, a plan of the city and many cuneiform inscriptions. Through these finds, scholars have been able to reconstruct the lives of the people of ancient Mesopotamia: the music they listened to, the board games they played and the school curriculum their children followed.

Woolley's campaigns generated exemplary records, now housed, along with the objects, at the British Museum, the National Museum of Iraq and the Penn Museum. The new project, *Ur of the Chaldees: A Virtual Vision of Woolley's Excavations*, will combine all available information about each of the objects, along with the extensive maps, drawings, photographs and archival field records that provide essential context, in a rich, searchable website that will bring out the Ur story as fully as possible. Find spot, style of manufacture, purpose and date will be available at visitors' fingertips, together with drawings, photographs and—in the case of inscriptions—full translations. This will enable online visitors to follow individual objects or access a multi-level site overview in a way only possible in the case of Ur—a site that also drew many famous participants and visitors, including Agatha Christie—and use new digital tools that may well advance the understanding of this ancient society.

The British Museum and the Penn Museum are in communication with colleagues at the National Museum of Iraq about the project and hope to develop an active collaboration as the project progresses.

"This is an innovative project and a most welcome collaboration, designed to open up public and scholarly access to one of the most important excavations of the 20th century," said Dr. Julian



Queen Puabi's headdress, beaded cape and jewelry of gold, lapis lazuli and carnelian, from the Royal Cemetery of Ur, ca. 2600–2500 BCE, currently on view at the Penn Museum.

Siggers, Williams Director, Penn Museum. "As we enable wider scholarly access to this material, we believe our understanding of Ur and the ancient Near East will improve dramatically."

Neil MacGregor, director of the British Museum, said, "I am delighted that through the generosity of the Leon Levy Foundation these sensational discoveries—housed among these three great museums—can be presented to a worldwide audience of millions."

Shelby White, founding trustee, the Leon Levy Foundation, said, "Woolley's work at Ur revealed much of what we know today about ancient Mesopotamia, and this project has the potential to discover new insights. The Leon Levy Foundation has long supported archaeological publications in print and, more recently, digital archival preservation. The Ur project takes us further into the expanding world of digital scholarship. We are delighted to be part of this effort."

Ur of the Chaldees, which is expected to be complete in 2015, will be unveiled in stages, with the first tranche of information available to scholars in a beta site as early as mid-2014.

One Step Ahead

Security & Privacy
Made Simple

Another tip in a series provided by the Offices of Information Systems & Computing and Audit, Compliance & Privacy.

October: National Cyber Security Awareness Month; Free Secure Disposal of Paper and Electronics at Employee Resource Fair

Did you know that October is National Cyber Security Awareness Month (NCSAM)? Each one of us needs to do our part to make sure that our online activities are kept safe and secure—that's what NCSAM is all about. For more information on resources and events available throughout the month to help protect Penn systems and data, visit the NCSAM table at the Employee Resource Fair (details below). Also be sure to visit www.upenn.edu/computing/security/ncsam/ for additional information on NCSAM.

Did you also know that the annual Employee Resource Fair will take place on Thursday, October 10, from noon to 2 p.m. in Bodek Lounge, Houston Hall? During the Fair, Penn's shredding vendor, Recall, will shred personal papers free of charge for Penn employees. This shredding service provides a great opportunity to reduce risks—such as the possibility of identity theft—by securely disposing of confidential papers that are no longer needed.

Another Penn vendor, Gigabiter, will securely shred personally owned computer hard drives and properly dispose of personal consumer electronics (such as old TVs and monitors) that are brought to the Fair, at no charge to Penn employees.

Start gathering your unneeded documents and electronics now. On the 10th, simply bring as many documents as you can carry to the Recall shredding truck that will be located on the walkway between College Hall and the Fisher Fine Arts Library during the Fair. Your papers will be shredded on site at no charge. Have your selected hard drives shredded, at no cost to you, at the Gigabiter truck that will be located near Houston Hall during the Fair. The best way to protect confidential information is not to have it—and this is a great way to get rid of it! In addition, bring your old consumer electronics to the Gigabiter truck at the Fair for free, environmentally sound disposal.

For additional tips, see the One Step Ahead link on the Information Security website: www.upenn.edu/computing/security/

2013 National Drug-Free Work Week: October 14–19

This year's national Drug-Free Work Week will take place October 14–19. The University of Pennsylvania values the health and safety of the entire Penn community and is committed to maintaining a drug-free workplace year-round. Drug and alcohol abuse can harm not only the person with the substance abuse problem, but also his or her family, friends and co-workers. Penn prohibits the unlawful manufacture, distribution, dispensation, sale, possession or use of any drug by its employees in its workplace. Please take the time to review the University's drug and alcohol policies which are available online:

- Drug-Free Workplace Policy: www.hr.upenn.edu/myhr/resources/policy/performance/drugfreeworkplace
- Alcohol and Drug Policy: www.vpul.upenn.edu/alcohol/policy2.php

If you or a family member have a substance abuse problem, we encourage you to seek help. Penn provides free, confidential counseling services for you and your immediate family members through the Employee Assistance Program (EAP). The EAP is designed to provide assistance with issues and challenges that may interfere with your personal or professional life, including serious issues such as substance abuse. For more information about the EAP, visit the Division of Human Resources website at www.hr.upenn.edu/myhr/worklife/healthy/eap or contact the Employee Assistance Program 24 hours a day, 7 days a week at (888) 321-4433.

—Division of Human Resources

Almanac On-the-Go: RSS Feeds

Almanac provides links to select stories each week there is an issue. Visit Almanac's website, www.upenn.edu/almanac for instructions on how to subscribe to the Almanac RSS Feed.

Update

October AT PENN

CHANGE

9 *Aristote a-t-il Plaidé Pour un Divorce Entre Poésie et Politique?*; Pierre Destree; Université Catholique de Louvain; in French; 4:30 p.m.; rm. 329 A, The Max Kade Center, 3401 Walnut St. (Classical Studies).

READING/SIGNING

14 *Urban Book Talk: Driving Detroit, The Quest for Respect in the Motor City*; George C. Galster, Wayne State University; 6 p.m.; rm. B3, Meyerson Hall; register: <https://driving-detroit.eventbrite.com> (Penn IUR).

TALKS

8 *On the Change and Structure of the American Company and America's System of Capitalism*; Tom Easton, *The Economist*; 6 p.m.; BRB Auditorium (Penn IUR).

16 *Connections Beyond Our Garden—Talks on People, Plants and Place*; Drew Becher, Pennsylvania Horticultural Society; 3 p.m.; Widener Visitor Center, Morris Arboretum (Arboretum).



Kicking off Annenberg Center's Irish Roots Series: On Saturday, October 12 at 7 p.m., the Makem & Spain Brothers are performing to honor Irish tradition and musical history at Annenberg Center's Harold Prince Theatre. The *New York Chronicle* has praised them as "the definitive Irish folk singers of their generation." Tickets: www.annenbergcenter.org or call (215) 898-3900.

AT PENN Deadlines

The October AT PENN calendar is online at www.upenn.edu/almanac. The deadline for the November AT PENN calendar is *Tuesday, October 15*.

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

The 2014 MLK Commemorative Symposium: Call for Programs

Each year, during the month of January, the University of Pennsylvania and our surrounding communities come together to commemorate the life and legacy of Dr. Martin Luther King, Jr. This commemoration includes a day of service on our campus and in the Philadelphia community on Monday, January 20, 2014 and continues with programming and events through Friday, January 31, 2014.

We invite your organization to plan a program in conjunction with this year's symposium. Programs can include reflection, action and response on/to contemporary issues and should raise issues of social change and social justice while incorporating Dr. King's challenging vision to end racism and poverty, to strengthen and embrace diversity and to support free expression. All programs will be publicized on the MLK 2014 website, on the January AT PENN calendar and in the official Symposium guide.

Before submitting a program please review the current MLK 2014 event calendar for similar programs or timing conflicts. To submit a program or event request, please visit the Penn MLK Symposium website: www.upenn.edu/aarc/mlk/

The deadline for program submissions is *Tuesday, December 3, 2013*.

If you have any further questions, please email us at mlk.symposium@gmail.com

Thank you for your consideration.

—The 2014 Dr. Martin Luther King, Jr. Commemorative Symposium Executive Committee

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 **September 23-29, 2013**. Also reported were 23 Crimes Against Property (16 thefts, 4 other offenses, 1 fraud, 1 DUI and 1 disorderly conduct). Full reports are available at: www.upenn.edu/almanac/volumes/v60/n08/creport.html Prior weeks' reports are also online. —Eds.

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 **September 23-29, 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.

9/27/13 5:06 PM 3500 Market St Cell phone taken/Arrest

18th District Report

Below are the Crimes Against Persons from the 18th District: 11 incidents with 3 arrests (6 robberies, 4 assaults and 1 rape) were reported between **September 23-29, 2013** by the 18th District covering the Schuylkill River to 49th Street & Market Street to Woodland Avenue.

9/23/13	4:46 PM	3900 Blk Locust Walk	Rape
9/23/13	8:56 PM	4600 Spruce St	Robbery
9/24/13	10:54 PM	4401 Walnut St	Robbery/Arrest
9/25/13	10:47 AM	4700 Locust St	Assault
9/25/13	4:18 PM	4631 Chestnut St	Assault
9/25/13	4:18 PM	46th/Chestnut Sts	Assault
9/25/13	9:20 PM	4526 Walnut St	Robbery/Arrest
9/25/13	11:08 PM	506 S 42nd St	Assault
9/26/13	12:48 AM	809 S 49th St	Robbery
9/27/13	5:06 PM	3500 Market St	Robbery/Arrest
9/28/13	8:40 PM	251 S 44th St	Robbery

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OCTOBER 1 – NOVEMBER 15

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A Workplace Charitable Campaign

Center for Responsible Funding • Penn Medicine • United Way

Penn's Way 2014—Raffle Prizes

Week 1 (Drawing October 7)

Arden Theatre Company: Two tickets
Penn Ice Rink: Two free admissions
Penn Business Services: Photo essay book
Penne Restaurant & Wine Bar: \$75 gift certificate
Colonial Airport Parking (PHL): Free parking (up to 10 days)

Avis Car Rentals: \$25 off a rental
Eastern State Penitentiary: Two daytime tickets

Week 2 (Drawing October 14)

National Constitution Center: Two admission passes
Eastern State Penitentiary: Two daytime tickets
Penn Business Services: Photo essay book
Budget Car Rentals: \$25 off a rental
Unite Fitness: Class Voucher (\$80 value)
Hampton Inn Center City: One night stay for 2 adults *
Penn Ice Rink: Two free admissions

* Prizes valued at over \$100 are subject to state and federal tax. Winners are offered the option of refusing the prize.

Q: How can I qualify to win raffle prizes?

A: To qualify for the weekly raffle, you must participate by completing an online pledge form by Friday at noon or by returning your completed paper pledge form to your coordinator or captain by his/her weekly deadline. Inaccurate, incomplete or illegible paper pledge forms will not be entered into the raffle. All participants, including weekly raffle winners will be included in the grand prize drawing at the end of the campaign.

See www.upenn.edu/pennsaway for more information about the Penn's Way campaign.

Almanac

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Penn President Amy Gutmann (above); (at right), the Green Roof.

Unveiling Penn's Crown Jewel

President Amy Gutmann called the dedication, a really seminal occasion that will shape the future of nanotechnology. The building, which flows from the science, she said, is the first Penn building to be designed for two great Penn schools—the School of Engineering & Applied Science and the School of Arts & Sciences (*Almanac* February 22, 2011).



The Tony Smith (1912-1981) steel sculpture, *We Lost* (1962) formerly on College Green has found a new home in front of the Singh Nanotechnology Center (above). Dr. Mark Allen, (inset) is the inaugural scientific director of the Center (*Almanac* September 3, 2013).

The Crystal Palace of Nanotech

Break out the Bolly and celebrate
For October fourth was the due date
The time at Penn for a dedication
Among the greatest in the nation
When a wondrous era was ushered in
Devoted to the small and thin
For this crystal palace of nanotech
Deserves the finest champagne sec
This towering edifice of light
That brightly shines both day and night
It sings to all in days of gloom
Especially with its cantilevered room
That sparkles in the noonday sun
And shares its warmth with everyone
This building has been Saffron-blessed
After meeting her most stringent test
For it is the jewel in the triple crown
Of Eduardo Glandt, Penn's dean of renown
Who, with artwork, too, has had it filled
With statuary by which all are thrilled
This Weiss/Manfredi creative endeavor
In architectural lore will last forever
So what is this building that embraces ecology?
It is the Krishna P. Singh Center for Nanotechnology

—Andrew Roxburgh McGhie



The building was designed by Weiss/Manfredi Architecture/Landscape/Urbanism, a multidisciplinary practice based in New York City, founded by Marion Weiss and Michael Manfredi (at left). Ms. Weiss is the Graham Chair Professor of Architecture in Penn's School of Design. The team's challenge was to create a building that evoked the mathematical precision of nanotechnology while being integrated into the large scale of Penn's urban campus (*Almanac* March 4, 2008). The results have been met with resounding praise from the architecture world: The Singh Center has already won a 2013 American Architecture Award and a 2013 International Architecture Award, presented by the Chicago Athenaeum Museum of Architecture and Design and the European Centre for Architecture Art Design and Urban Studies.

The Singh Center was made possible by a \$20 million gift (*Almanac* September 4, 2007) by Krishna P. Singh (at left). Dr. Singh is the founder, president and chief executive officer of Holtec International in Marlton, NJ, an energy-technology company he established in 1986. He is a member of Penn's Board of Trustees and the Penn Engineering Board of Overseers and has served as an adjunct professor of mechanical engineering at Penn. He received his PhD in mechanical engineering in 1972 from Penn and a master's in engineering mechanics in 1969, also from Penn.

(Below center) *Endless III* (2010) a stainless steel sculpture by Jaime Plensa (b. 1955).

(w) One of three conference rooms in the Center.



(Above) SEAS Dean Eduardo Glandt.



Photographs by Marguerite F. Miller