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Two Faculty to Named Chairs in School of Arts & Sciences

Dean Steven J. Fluharty has announced the appointments of two faculty members to named chairs in the School of Arts & Sciences.

Eve Troutt Powell, the School's associate dean for graduate studies, has been appointed Christopher H. Browne Distinguished Professor of History and Africana Studies. She is a historian of the modern Middle East and its relationship with Africa. Her teaching and scholarship focus on slavery, colonialism and the development of ethnic, racial and national identities. Her research into Egypt as both a colonized territory of Great Britain and a colonizer of the Sudan—the “colonized colonizer,” as she terms it—is regarded as a ground-



Eve Troutt Powell

breaking, broadly influential study of the interplay between colonialism, slavery and nationalism. Drawing from a variety of sources including film, cartoons and photography, Dr. Troutt Powell is advancing understandings of slavery linked to Africa, Europe and the Ottoman Empire while at the same time forging new methods of historiography.

Dr. Troutt Powell was named a MacArthur Foundation Fellow in 2003. She has been a fellow at the American Research Center in Egypt, the Social Science Resource Council, the Institute for Advanced Study in Princeton and the Radcliffe Institute for Advanced Study at Harvard. Prior to becoming associate dean in July of 2013, Dr. Troutt Powell served as graduate chair in history, and she is a member of the Middle East Center and the Center for Africana Studies. She earned her BA, MA and PhD from Harvard University.

This chair is one of five created in 2000 by an exceptionally generous gift from Christopher H. Browne, C'69, who served Penn as a trustee and chairman of the Board of Overseers in the School of Arts & Sciences. The Browne chairs

recognize faculty members who have achieved an extraordinary reputation for scholarly contributions, who have demonstrated great distinction in teaching and who have demonstrated intellectual integrity and unquestioned commitment to free and open discussion of ideas.

Steven Weitzman, who came to Penn in July from Stanford University, has been appointed Abraham M. Ellis Professor of Hebrew and Semitic Languages and Literature in the department of religious studies. He is also the new Ella Darivoff Director of the Herbert D. Katz Center for Advanced Judaic Studies. Dr. Weitzman



Steven Weitzman

is a scholar of biblical and Jewish studies. He applies insights from the study of religion, literary theory, anthropology and other fields to understand the origins of Jewish culture, the formation of the Bible and other ancient texts like the Dead Sea Scrolls and the history of how the Bible has been reimagined in later cultural traditions. Among his recent projects is a collaboration with a Stanford geneticist that aims to bridge Jewish studies and population genetics.

As director of the Katz Center, Dr. Weitzman will lead this distinguished research institute into its third decade of post-doctoral research on Jewish civilization in all its historical and cultural manifestations.

Dr. Weitzman received his PhD from Harvard after completing his BA at UC Berkeley, and had previously spent several years teaching in the department of religious studies at Indiana University where he served as director of its Jewish Studies program for six years.

The Abraham M. Ellis chair was created in 1954 by the Abraham M. and Rose Ellis Foundation. The Ella Darivoff Director was established in 2001 by Philip M. Darivoff, W'79, WG'85 and Betsy Marks Darivoff, C'79.

Thomson Reuters Citation Laureate: Physicist Charles Kane

Charles Kane, a professor in the department of physics & astronomy in the University of Pennsylvania's School of Arts & Sciences, is one of this year's Thomson Reuters Citation Laureates. The honor is designed to recognize researchers whose body of work puts them in contention for a Nobel Prize.



Charles Kane

Having accurately forecast 35 Nobel Prize winners since its inception in 2002, the annual Thomson Reuters Citation Laureates study mines scientific research citations to identify the most influential researchers in chemistry, physics, medicine and economics.

Thomson Reuters names multiple individuals or groups in each of these four categories each year. Dr. Kane, along with Laurens W. Molenkamp of the University of Würzburg in Germany and Shoucheng Zhang of Stanford University, are named in physics for their theoretical and experimental research on the quantum spin Hall effect and topological insulators.

This work introduced a new class of materials that are electrical insulators on their interior but conduct electricity on their surface. Their special properties could be useful for applications ranging from low power electronics to creating a topological quantum computer.

Thomson Reuters, which publishes aca-

demically journals, also develops tools for analyzing the impact of the studies contained therein and in journals from other publishers, more than 12,000 titles in all. The influence of a scientific idea can be measured by the degree to which the relevant papers and researchers are cited in subsequent studies, among other criteria.

Because the Nobel Prizes in Physics, Chemistry, Biology or Medicine and Economics are awarded to researchers who have had substantial impact on the direction of their field, citation rates are often good leading indicators of future winners.

“As imitation is one of the most sincere forms of flattery, so too are scientific literature citations one of the greatest dividends of a researcher's intellectual investment,” said Basil Moftah, president of Thomson Reuters IP & Science. “The aggregate of such citations points to individuals who have contributed the most impactful work and allows us to determine candidates likely to receive a Nobel Prize.”

Dr. Kane, who was elected to the National Academy of Sciences earlier this year, had previously been awarded a five-year, \$500,000 grant from the Simons Foundation, as part of its inaugural class of Simons Investigators (*Almanac* October 16, 2012). Similar to the MacArthur Foundation's “Genius Grants,” the prize comes from the nonprofit with no strings attached. It is intended to enable the researchers to undertake long-term study of fundamental questions in theoretical fields.

He has also shared the 2012 Buckley Prize of the American Physical Society and the 2012 Dirac Medal from International Center for Theoretical Physics for his work on topological insulators.

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October 1 Council Meeting Coverage

Before getting to the regularly scheduled agenda at last week's University Council meeting, President Amy Gutmann spoke about the "truly terrible news we've had in recent weeks" noting that the "untimely loss of a young person is tragic" referring to the two Penn students who died recently: Theodric "Theo" Reed (*Almanac* September 2, 2014) and Amanda Hu (*see page 3*).

President Gutmann said she is proud of the Penn community for its responsiveness and support at such times. The president described the delicate balance between honoring the wishes of families while keeping the whole Penn community informed (*see page 8*). She mentioned the importance of the need to 'lean on' one another.

The Task Force on Student Psychological Health and Welfare is continuing its work, with broad outreach including faculty, staff and students; their recommendations are being implemented, she said, as they are developed. She said that the psychological and emotional well-being of Penn's students is of utmost importance.

This being the first Council meeting of the academic year, Neville Strumpf, past Senate Chair from the School of Nursing, was welcomed back as interim moderator. Lauren Steinfeld, Penn Medicine's chief privacy officer and senior advisory for privacy from Audit, Compliance and Privacy, was reappointed as parliamentarian for her second year.

Claire Finkelstein, chair of Steering, noted the focus issues for the upcoming Council meetings, including the upcoming Open Forum at the next meeting on October 22 and the other on February 18. She also mentioned that there will be an orientation for the new chairs of Council committees and the former chairs will be invited to facilitate continuity.

Provost Vincent Price introduced the discussion of 2014-2015 academic theme year: *The Year of Health*. He said that the theme year is a great way to integrate knowledge and bring together faculty, staff and students as well as a way to celebrate the 250th anniversary of the Perelman School of Medicine.

Vice Provost for Education Andy Binns said that this is the eighth theme year and it began with the Penn Reading Project—Anne Fadiman's *The Spirit Catches You and You Fall Down* (*Almanac* January 21, 2014). This included a writing component for the 2,400 students involved. He said it was a fascinating book that deals with health, cultures, language and tragedy. The author will be speaking today in Dunlop Auditorium at noon. Other events during this theme year will address mental, physical and emotional health. See www.yearofhealth.org

David Fox, director of New Student Orientation and Academic Initiatives, described some of the events, from symposiums and screenings to staged readings and conferences. He encouraged the Penn community to apply for the grants that are available for programming. He said that for next year, instead of choosing a theme and then a book to match it, a book has been selected—Langston Hughes' *The Big Sea*—from the 150 submissions that were received.

Section IV.3(c) of the Council Bylaws provides that a University Council meeting "shall incorporate an open forum to which all members of the University community are invited and during which any member of the University community can direct questions to the Council."

All members of the University community are invited to bring issues for discussion to the

University Council Open Forum

Wednesday, October 22, 2014 at 4 p.m.
Bodek Lounge, Houston Hall

Individuals who want to be assured of speaking at Council must inform the Office of the University Secretary (ucouncil@pobox.upenn.edu) by Tuesday, October 14, 2014. Please indicate the topic you would like to discuss. Those who have not so informed the Office of the University Secretary will be permitted to speak only at the discretion of the Moderator of University Council and in the event that time remains after the scheduled speakers.

Please see the format given below. Questions may be directed to the Office of the University Secretary at (215) 898-7005 or ucouncil@pobox.upenn.edu

—Office of the University Secretary

Format for University Council's Open Forum

October 22, 2014

The University Council will devote a substantial portion of its October 22, 2014 meeting to a public forum. The purpose of the Open Forum is to inform Council of issues important to the University's general welfare and of the range of views held by members of the University. The forum is open to all members of the University community under the conditions set by the Bylaws, following guidelines established by the Steering Committee of Council:

1. Any member of the University community who wishes to do so may attend the Council meeting. Individuals who want to be assured of speaking at Council, however, must inform the Office of the University Secretary (ucouncil@pobox.upenn.edu) by Tuesday, October 14, 2014, indicating briefly the subject of their remarks. Those who have not so informed the Office of the University Secretary will be permitted to speak only at the discretion of the Moderator of University Council and in the event that time remains after the scheduled speakers.

2. Speakers should expect to be limited to three minutes with the possibility of additional time in cases where members of Council engage the speakers with follow-up questions or remarks. The Moderator may restrict repetition of views. Speakers are encouraged to provide Council with supporting materials and/or written extensions of their statements before, during or after the Council meeting.

3. Following the deadline for speakers to sign up in the Office of the University Secretary, the Chair of Steering and the Moderator of Council will structure the subject matter themes, speakers and times for the Open Forum session. In the event that there is not enough time available at the meeting to provide for all those who have requested to speak, the two officers may make selections which accommodate the broadest array of issues having important implications for Council's work and represent the breadth of Council's constituencies. The resulting order of the Open Forum of University Council will be made available no later than the Tuesday before the meeting, to be published on the Office of the University Secretary website (<http://www.upenn.edu/secretary/council/openforum.html>) and, if deadline constraints allow, in *The Daily Pennsylvanian* and *Almanac*.

4. Speakers' statements should be framed so as to present policy issues and directed to University Council as a body through the Moderator. The Moderator will have discretion to interrupt statements that are directed against persons and otherwise to maintain the decorum of the meeting, as provided for in the Bylaws. In cases where questions or positions can be appropriately addressed by members of Council, or where a colloquy would seem to be productive given the time constraints of the meeting, the Moderator may recognize members of Council to respond to speakers' statements, with opportunities for follow-up by the speakers.

5. Should the number of submitted topics of community-wide interest exceed what can be accommodated during a single Open Forum session, discussion will be allowed to continue at the following University Council meeting.

Honoring Lawrence Klein's Legacy

Macroeconomic Measurement, Theory, Prediction and Policy: A Colloquium Honoring The Legacy of Lawrence R. Klein will be held on Saturday, October 25, in Steinberg Hall-Dietrich Hall. The day-long program at Penn will begin with remarks by Dirk Krueger, professor and chair of economics at Penn.

Sessions will focus on *Macroeconomic Theory and Measurement* and *Macroeconomic Policy* as well as presentations that describe "Klein's Legacy as Embodied in the Penn Institute for Economic Research," "Klein's Legacy as Embodied in *The International Economic Review*" and "Klein's Legacy in Historical Perspective."

See <http://economics.sas.upenn.edu/> to register.

Professor Emeritus Lawrence R. Klein, the Benjamin Franklin Professor of Economics at Penn and recipient of the Nobel Prize in Economic Sciences in 1980, died October 20, 2013 (*Almanac* October 29, 2013).

Universities with Most Nobelists

Since 1901 when the Nobel Foundation began bestowing the awards, Penn has been affiliated with nearly 30 winners including alumni, researchers and faculty; it was recently included on a list of the "50 Universities with the Most Nobel Prize Winners" in a world-wide collection at number 21; see <http://www.bestmastersprograms.org/50-universities-with-the-most-nobel-prize-winners/>

The Nobelist with the longest Penn-affiliation was Dr. Klein who was on Penn's faculty from 1958 until his retirement in 1991. He continued as an active researcher and valued colleague for years. In 1980, Dr. Klein won the Nobel Prize (*Almanac* October 21, 1980) for the creation of econometric models and the application to the analysis of economic fluctuations and economic policies. His citation states that "few, if any, research workers in the empirical field of economic science have had so many successors and such a large impact as Lawrence Klein." For a detailed profile see www.nobelprize.org/nobel_prizes/economic-sciences/laureates/1980/klein-bio.html

In 2000, the Nobel Prize for Chemistry was awarded jointly to three people with Penn ties—Alan J. Heeger, from Penn's physics faculty and the Laboratory for Research on the Structure of Matter, 1962-1982; Alan G. MacDiarmid, who joined the faculty in 1955 and was the Blanchard Professor of Chemistry until his death in 2007 (*Almanac* February 13, 2007); and Hideki Shirakawa, a postdoctoral research associate at Penn, 1976-1977 "for the discovery and development of conductive polymers." They

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Director of the Penn Institute for Regenerative Medicine: Kenneth Zaret

Kenneth S. Zaret, a nationally recognized leader in the fields of developmental and stem cell biology, has been named the new director of the Penn Institute for Regenerative Medicine (IRM). Dr. Zaret, who was the IRM associate director, is also the co-director of the Epigenetics Program in the Perelman School of Medicine at the University of Pennsylvania.

Established in 2006, IRM is a locus for interdisciplinary research involving faculty from more than 25 departments in five schools to advance the field of regenerative medicine. As IRM associate director, Dr. Zaret worked with John Gearhart, first director of the IRM, and Ed Morrisey, IRM scientific director, to establish IRM as a national leader in the field.

"I am confident that Dr. Zaret will bring his solid knowledge and experience in developmental and stem cell biology, as well as epigenetics, to lead the Institute for Regenerative Medicine into its next chapter of research, education and clinical advances," said J. Larry Jameson, dean of the Perelman School of Medicine and executive vice president of the University of Pennsylvania for the Health System.

"In the next phase of the Institute, I aim to coalesce new discoveries, technologies and ethical perspectives to create important scientific and clinical advances, especially in the areas of digestive tissue regeneration, cancer diagnosis and targeting and skin repair, with additional focus on musculoskeletal, nervous system and cardiovascular repair," said Dr. Zaret.

He earned his PhD degree from the University of Rochester Medical School and completed his post-doctoral training in the department of biochemistry at the University of California, San Francisco. Before joining Penn in 2009 as the Joseph Leidy Professor in the department of cell and developmental biology, he was a senior member of the cell and developmental biology program at the Fox Chase Cancer Center, where he held the W. W. Smith Chair. Prior to that, Dr. Zaret was on the faculty of the Brown University Medical School.

The goal of his research program has been to understand how genes are activated to specify different cell types during embryonic development. Dr. Zaret's lab discovered a basis for the normal path of development in different tissue types by identifying pioneer transcription factors that engage target genes in progenitor cells, early in the development process. He established the use of mammalian embryonic endoderm cells as an experimental system and used them to discover signals that induce liver and pancreas tissue in the embryo. These discover-



Kenneth Zaret

ies are now used by others in regenerative medicine to identify specific types of stem cells for therapies and research.

His lab discovered that endothelial cells possess a direct signaling role in promoting liver and pancreas development, a finding that colleagues use to enhance artificial organ development. While investigating the basis by which cells resist being reprogrammed, the Zaret lab also found large areas on chromosomes that physically block the binding of regulatory factors, which must be overcome to allow cell reprogramming.

Recently, his lab used stem-cell technology to reprogram human pancreatic cancer cells to develop an experimental model to recreate and study early stages of the disease.

Dr. Zaret has written or cowritten nearly 100 peer-reviewed research articles, as well as numerous book chapters. He has been an editor of the journals *Molecular and Cellular Biology* and *Development*; chaired international scientific meetings; and served on numerous scientific advisory boards for academia, biotech/pharma and the National Institutes of Health, including the National Institute of General Medical Sciences (NIGMS) Council.

Among numerous professional accolades, he has received a MERIT award from NIGMS, the Hans Popper Basic Science Award from the American Association for the Study of Liver Diseases and the American Liver Foundation and is a Fellow of the American Association for the Advancement of Science.

Death

Ms. Hu, Penn Sophomore



Amanda Hu

Amanda Hu, a Penn sophomore who was on voluntary leave of absence from the University, died September 28 at age 20.

Ms. Hu was from North Carolina and was a graduate of Providence High School. She was a biochemistry major and was involved in Penn Model Congress, Penn for Youth Debate and Penn Sci-

ence Across the Ages.

Ms. Hu is survived by her mother, Xin Liu; father, Wei Hu; and brother, Kevin Hu.

\$1.45 Million to Speed Research for Rare Neurodegenerative Diseases

Two Penn Medicine research teams have received a total of \$1,450,000 in funding commitments from CurePSP, the Foundation for PSP/CBD and Related Brain Diseases, to study rare neurodegenerative disorders that cause motor, balance and cognitive impairment.

The team of John Trojanowski and Virginia M.-Y. Lee will leverage recent work uncovering how tau, an essential protein of nerve cell structure, becomes toxic and spreads from cell-to-cell in diseased brains. Using this discovery, they aim to develop disease-modifying tau immune therapies for progressive supranuclear palsy (PSP) and corticobasal degeneration (CBD), in animal models at first. The most promising anti-tau antibody candidates could then be pursued in industry-sponsored clinical trials for patients with PSP and CBD.

The \$600,000 to the Trojanowski and Lee team has the potential to increase through a novel challenge program. Penn Medicine researchers will team up with CurePSP to raise funds that will be directed back to Penn Medicine research efforts.

A team led by geneticist Gerard Schellenberg, professor of pathology and laboratory medicine, received \$850,000 from CurePSP to perform whole exome sequencing to detect rare inheritable genetic changes that cause or increase susceptibility to developing PSP. This follows up on the 2011 *Nature Genetics* study in which Dr. Schellenberg's team identified three new genes associated with risk for PSP and confirmed two additional genetic variants affecting risk for PSP. PSP is primarily caused by an abnormal accumulation of tau protein, which can be influenced by both inherited factors and environmental insults (e.g. repetitive brain trauma).

PSP, a movement disorder and form of frontotemporal degeneration, affects around 30,000 Americans, and after Parkinson's disease, is the second most common cause of degenerative parkinsonism. The disease is characterized by a difficulty coordinating eye movement, imbalance and gait instability, stiff movements, difficulty swallowing and speaking, along with mood and emotional changes. There is currently no treatment or cure for PSP.

An estimated 3,000 Americans are affected by CBD, which includes similar symptoms to those found in Parkinson's disease, such as poor coordination, rigidity and impaired balance, along with speech and cognitive impairments, difficulty swallowing and stiff or uncontrolled movements.



Gerard Schellenberg

Universities with Most Nobelists

(continued from page 2)

are among the six honorees from Penn's chemistry department.

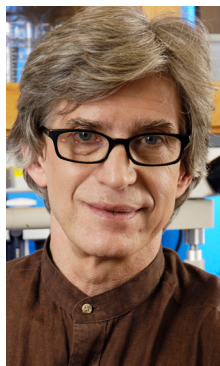
Nobel-winning Egyptian chemist and "father of femtochemistry" Ahmed H. Zewail, who won his prize in 1999, earned his PhD at the University of Pennsylvania in 1974 (*Almanac* October 19, 1999).

Several Physiology or Medicine winners are Penn alumni: Gerald M. Edelman (1972) earned his MD at Penn in 1954; Michael S. Brown (1985) earned his BA in chemistry in 1962 and his MD in 1966 (*Almanac* October 22, 1985); and Stanley B. Prusiner (1997) D'64, M'68 (*Almanac* October 7, 1997).

For a list of Penn's Nobel Prize winners see: <http://www.archives.upenn.edu/people/notes/awards/nobel.html>



Virginia Lee



John Trojanowski

Comparative Animal Biology Pilot Grant: December 5

The Penn-CHOP CTSA Program in Comparative Animal Biology (PICAB) announces a new pilot grant program between veterinary and human medicine to advance translational therapeutics. Many naturally occurring diseases in domestic animals are sufficiently similar to human diseases that they can be used to evaluate the feasibility of novel treatments. The emphasis is on molecular medicine approaches to therapy (gene therapy, stem cells, recombinant proteins) with the goal of generating sufficient preliminary data to support extramural grant applications.

These proposals require co-PIs from the veterinary and the medical faculty (PSOM or CHOP). One pilot grant of up to \$45,000 is available with a start date of February 1, 2015.

Grants are due at noon on *Friday, December 5, 2014*. Please visit <http://www.itmat.upenn.edu/funding.shtml> for more information.

—John Wolfe, Director, PICAB

DRC Pilot and Feasibility Grants: December 1

The Diabetes Research Center (DRC) of the University of Pennsylvania is now accepting applications for support to perform pilot and feasibility studies in diabetes and related endocrine and metabolic disorders.

The P&F program is particularly directed at new investigators and established investigators new to diabetes research. Established diabetes investigators pursuing high impact/high risk projects or projects that are a significant departure from their usual work are also eligible for support under the DRC P&F program. Applications are welcome from basic, clinical and translational investigators. In addition, up to two applications will be awarded for funding of metabolomics projects to be conducted by the DRC Regional Metabolomics Core at Princeton University.

Grants will be reviewed by the DRC Pilot and Feasibility Review Committee as well as internal and external reviewers. Funding level maximum is \$50,000. For the Metabolomics Pilot awards, funding level maximum is \$16,000 per award, to be spent directly at the Princeton Core. Current Award period: April 1, 2015-March 31, 2016.

For detailed information including application instructions visit: <http://www.med.upenn.edu/idom/derc/pilots.html>

If human or animal subjects will be participating in the proposed research, IRB or IACUC approval will be required. Approval may be pending at the time of application but funds will not be disbursed without copies of the approval letters. Equipment, travel funds and investigator salary are not permitted on this award.

Investigators who are currently in the first year of support through this P&F Program may reapply for an additional year of funding. Such continuation requests need to be carefully justified, however, and will be considered as competing renewals.

Application Deadline: *Monday, December 1, 2014*. For information, please contact Vesselina Panteva via telephone: (215) 898-0198 or email: panteva@mail.med.upenn.edu or Dr. Doris Stoffers, director, DRC Pilot & Feasibility Grants Program via telephone: (215) 573-5413 or email: stoffers@mail.med.upenn.edu

Call for Proposals for 2015-2016 Art and Culture First-Year Seminars: November 1

The Art and Culture first-year 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. Previous examples can be found here: <https://provost.upenn.edu/initiatives/arts/academics/freshman-seminars>

The College of Arts & Sciences will roster five of these seminars—all departments and programs are encouraged to apply. 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 first-year seminars will automatically receive a *Campus Philly* Cultural Passport, giving them discounted access to a variety of city-wide cultural opportunities all year. All first-year seminars also fulfill *College General Education Requirements*.

Please submit a 1-page proposal for the seminar, including a course description and title, a budget, a list of the venues that will be visited and a brief explanation of the ways in which students will become involved with them. Please also note in which semester you plan to teach; preference will be given to seminars rostered in the fall, although

proposals for the spring semester will also be considered. Ideally, these courses will 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 sietinso@sas.upenn.edu no later than *November 1, 2014*. 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 Marsden-Atlas, imatlass@upenn.edu

Morris Arboretum: Miriam Von Essen, miriamv@upenn.edu

WXPN: Roger LaMay, roger@xpn.org

Call for Proposals of Anatomic or Functional Imaging Approaches: December 5

The Translational Biomedical Imaging Center (TBIC) was established under the leadership of the ITMAT in part “to broaden and accelerate translational imaging research through the development of a center to bring together investigators with diverse backgrounds that contribute to various aspects of imaging science and who share a vision of contributing to the advancement of clinical medicine.” Among the approaches adopted by the TBIC to promote the use of imaging technology to facilitate translational research are the support of core facilities, collaborative imaging scientists and retreats/seminars. Building on this foundation, the TBIC announces a new collaborative pilot grant program to help catalyze collaborations between primary imaging scientists and primary biomedical/clinical researchers that integrate novel imaging approaches to enhance translational science and medicine.

These proposals require at least two Co-Principal Investigators, one investigator whose primary research focus is in imaging methodology development and another investigator whose research is focused on biomedical science. At least one of the co-principal investigators should have a primary appointment in the School of Medicine. All investigators must be members of ITMAT. The TBIC adopts a broad definition of imaging science and seeks proposals that focus on anatomic or functional imaging approaches that span from the microscopic to in vivo regimes. Proposals that include a broad range of imaging methods including image acquisition techniques, image analysis and imaging probe development will be considered. Funding will

be based on scientific merit, potential downstream clinical impact and the likelihood that the project will generate independent funding to sustain the effort. Post-pilot award outcomes will be surveyed. The deadline for applications is *December 5, 2014* for an award start date of February 1, 2015.

Please visit our website at <http://www.itmat.upenn.edu/funding.shtml> for more information related to funding.

For additional information related to TBIC, visit our website at <http://www.itmat.upenn.edu/tbic.shtml> or contact Drs. Mitchell Schnall at mitchell.schnall@uphs.upenn.edu or James Gee at gee@mail.med.upenn.edu

ITMAT invites proposals from ITMAT Members and ITMAT Associate Members in the Research Associate or Instructor A category. It is not too late to become a Member or an Associate Member if you would like to apply for the grant and meet membership criterion. If you are interested, please visit the membership section of our website (<http://www.itmat.upenn.edu/membership.shtml>) for details.

The proposals must center on the translational space—in terms of drug development, from proof of concept in cells or model systems through to mechanistic studies in humans or, in drug development, completion of dose selection in Phase II. Programs that plan to progress within that space and which deploy technologies and approaches conventionally segregated from each other within the traditional boundaries of academic medicine will be especially favored.

—Garret A. FitzGerald, Director, ITMAT

Honors & Other Things

NIH Award to Advance Rapid, Graphene-based Gene Sequencing: Dr. Drndić



Marija Drndić

Marija Drndić, a professor in the department of physics & astronomy in the University of Pennsylvania's School of Arts & Sciences, has been awarded a two-year, \$880,000 grant for a project aimed at reducing the cost and time of genome sequencing. The grant was made by the National Human Genome Research Institute of the National Institutes of Health. During the past decade, DNA sequencing costs have fallen dramatically, fueled by tools, technologies and process improvements developed by genomics researchers.

Price, however, together with speed and accuracy, are still hurdles in the widespread use of genomics in research and clinical care. The grants, made through the NHGRI's Advanced DNA Sequencing Technology Program and totaling as much as \$14.5 million between eight groups, will attempt to address all of these challenges.

Dr. Drndić's approach to gene sequencing involves a process known as DNA translocation through a nanopore. The technique typically involves threading DNA, suspended in an ionic fluid, through a tiny hole in a thin membrane. Each of the four bases of a DNA sequence block different amounts of the aperture as they pass through, thus allowing a different number of ions to pass through along with them. In most nanopore sequencing, researchers attempt to identify bases by reading changes in ion current through the nanopore.

This award will support Dr. Drndić's approach to this process, in which a thin material around the nanopore is proposed to directly sense the bases, potentially enabling an electrical recording of a different signal for each base.

The new grant will specifically support Dr. Drndić's proof-of-principle research on translocation through nanopores in graphene nanoribbons. Graphene is a single-atom-thick lattice of carbon and is the most electrically conductive material yet known, offering potential advantages over nanopores made in other materials, including metals or biological molecules. The high conductivity of graphene could eliminate the need for additional amplification of the electrical signal stemming from the nanopore.

"There is a strong demand for fast and cheap DNA sequencing," Dr. Drndić said. "Graphene's electrical properties mean that we may be able to read out signals from the bases from the graphene nanoribbon as DNA molecules in solution go through the pore, rather than from ionic current. This means that we may not need to slow down the DNA to make an accurate reading. This project will build the fundamental understanding behind processes governing DNA interactions with graphene nanoribbons."

Dr. Drndić's research is also made possible by Penn's Krishna P. Singh Center for Nanotechnology, which contains the transmission electron microscopes and cleanroom facilities necessary to work with graphene nanoribbons.

Doris Duke Grant: Dr. Lee

Edward B. Lee, an assistant professor of pathology and laboratory medicine in the Perelman School of Medicine, has received a three-year Clinical Scientist Development Award (CSDA) for \$486,000 from the Doris Duke Charitable Foundation to support his research in frontotemporal lobar degeneration and amyotrophic lateral sclerosis (ALS).

Dr. Lee heads the Translational Neuropathology Research Laboratory, which aims to understand the root causes of neurodegenerative diseases to develop specific disease-modifying therapies. The lab employs an interdisciplinary approach to address the mechanisms of neurodegeneration, using and developing such cutting-edge techniques as high-resolution, multi-spectral, 3-dimensional confocal imaging and next-generation sequencing.

This award will allow Dr. Lee to study a mutation in the C9orf72 gene, the most common genetic cause of frontotemporal degeneration and ALS. With collaborators at the Center for Neurodegenerative Disease Research, the ALS Center at Pennsylvania Hospital and the PENN FTD Center, Dr. Lee will determine how epigenetic modifications of C9orf72 affect disease pathogenesis.

The CSDA funds physician-scientists who are forming their own research teams and allows them to dedicate 75 percent of their professional time to clinical research. Since 1998, the Doris Duke Foundation has awarded 235 CSDAs, with 17 recipients this year.

Grant to Penn Nursing for the Future of Nursing Scholars Program

University of Pennsylvania School of Nursing is one of only 14 schools of nursing nationwide to be among the first to receive a grant from a new Robert Wood Johnson Foundation (RWJF) program to increase the number of nurses holding PhDs. As an inaugural grantee of the Future of Nursing Scholars program, Penn Nursing will select two nursing students to receive financial support, mentoring and leadership development over the three years of their PhD programs.

The Future of Nursing Scholars program is a multi-funder initiative. In addition to RWJF, United Health Foundation, Independence Blue Cross Foundation, Cedars-Sinai Medical Center and the Rhode Island Foundation are supporting the Future of Nursing Scholars grants to schools of nursing this year. The Future of Nursing Scholars program plans to support up to 100 PhD nursing candidates over its first two years.

Penn Nursing received its grant from Independence Blue Cross Foundation and has welcomed the first cohort of the Future of Nursing Scholars program. "We are honored that the University of Pennsylvania School of Nursing was selected as a recipient of the first Robert Wood Johnson Foundation: Future of Nursing Scholars grants. We are committed to developing PhD prepared nurse scientists who will address the unique challenges in our society and become the future intellectual leaders, innovators and transformative change agents in nursing science," said Dr. Connie Ulrich, associate professor of bioethics and nursing and graduate group chair of PhD Studies.

In its landmark nursing report, the Institute of Medicine recommended that the country double the number of nurses with doctorates; doing so will support more nurse leaders, promote nurse-led science and discovery and put more educators in place to prepare the next generation of nurses.

Top Nurse Practitioner: Dr. O'Sullivan

Ann L. O'Sullivan, Dr. Hildagarde Reynolds Endowed Term Professor of Primary Care Nursing, has been named one of the top 25 professors of nurse practitioner programs by *Nurse-PractitionerSchools.com* (NPS). Dr. O'Sullivan is a nationally known and an internationally consulted expert on working with teen mothers, particularly those under 17 years of age. Her 30 years of experience as a practicing Pediatric Nurse Practitioner have helped her develop a Primary Care Program that combines academic skill and research with real life application. She has attained a reputation as a teacher of impact and lasting influence that is attested to by both students and colleagues.

NWSA Award: Ms. Salters

Jasmine Salters, a doctoral student in Penn's Annenberg School for Communication, has received the National Women's Studies Association (NWSA) Women of Color Caucus-Frontiers Award for her essay, "Trans-ing The Wreck: Constructing a Trans Hip-Hop Feminist Lens." The award, according to the NWSA, is designed to "discover, encourage and promote the intellectual development of emerging scholars who engage in critical theoretical discussions and/or analyses about feminist/womanist issues concerning women and girls of color in the United States and the diaspora." Only four of these awards are presented each year. Ms. Salters will receive the award during the NWSA annual conference in November.

Employee Resource Fair: October 13

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 13* 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 ppsa@exchange.upenn.edu

If you wish to host a table and have not yet registered, please do so immediately. To inquire about availability, email Lucia DiNapoli at luciad@nursing.upenn.edu

We look forward to seeing you on October 13.

—Emma Grigore, PPSA Chair

—Rosa Vargas, WPPSA Chair

Clay@Penn 2014—Pervasive Clay: October 13-28

The Undergraduate Fine Arts Program at the University of Pennsylvania is pleased to announce *Clay@Penn 2014: Pervasive Clay*, an exhibition of ceramic works by 13 local and regional contemporary artists at the Charles Addams Fine Arts Gallery on Penn's campus. During the exhibition's run—October 13 through October 28—the gallery will also host two evenings of Clay Salons—informal talks by eight distinguished scholars and art professionals from Penn and Philadelphia.

Pervasive Clay invites visitors to re-envision clay as an art practice in a rapidly evolving world of contemporary art and culture. Though often considered an archaic material, clay persists in shaping our everyday needs and desires, and its movement continues to traverse history, geography and many bodies of knowledge. *Pervasive Clay* showcases the rich variety of creative directions taking place in the world of ceramics today and reveals the power of clay as a social medium.

Two evenings of Clay Salons will be held in the gallery during the exhibition. These reception-style gatherings are designed to engage visitors in after-hours conversations with scholars, artists and professionals and to explore the many aspects of clay—practical, aesthetic, historical, social, digital—that inspire and inform our lives, our art and our culture.

"Clay is not just a material for art," said Ken Lum, professor and director of the undergraduate fine arts program, "but fundamental to creativity in art."

Participating artists in the exhibition are Ruth Borgenicht, Molly Hatch, Bryan Hopkins, Jane Irish, J.J. McCracken, Don Nakamura, Liz Quackenbush, Jenny Sabin, Paul Swenbeck, Matthew Courtney, Ryan Greenheck, Sumi Maeshima and Raymond Rorke.

An opening reception will be held on October 14 at 5:30 p.m. and the Clay Salons will be held on October 14 and October 22 at 5:30 p.m.

Presenters on October 14: Ann Blair Brownlee, Frank L. Chance, Jane Irish, Jenny Sabin.

Presenters on October 22: Elisabeth Agro, Marie-Claude Boileau, J.J. McCracken, Christopher R. Taylor.

Pervasive Clay is free and open to the public. Charles Addams Fine Arts Gallery hours are Monday-Friday, 9 a.m.-5 p.m., and Saturdays, noon-4 p.m. *Clay@Penn 2014: Pervasive Clay* is also, in part, a celebration of The Clay Studio's 40th anniversary as one of the nation's premier centers for the development of ceramic art and artists.

For info call (215) 573-5134, <http://www.design.upenn.edu/fine-arts/undergraduate/events>



One Step Ahead

Security & Privacy
Made Simple

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

Shellshock

On Wednesday, September 24, a computer vulnerability nicknamed "Shellshock" was announced. Because it has the potential to affect many millions of critical systems worldwide, it is being compared in scope to the recent Heartbleed bug. The vulnerability exists within BASH, the UNIX command line shell used by a large majority of Linux and Unix based operating systems, including the majority of servers on the internet that host websites. While this bug was just recently discovered, the issue has been in the code for over 20 years, affecting any system that has not been updated since patches began to be released on Thursday.

As soon as the bug was disclosed, Penn IT staff began identifying and remediating affected computers, focusing on critical systems first. In addition to scanning potentially vulnerable systems, ISC Information Security is actively monitoring network traffic for attacks on Penn systems.

Anyone who runs a Linux or Unix based system is being asked to patch their system as soon as possible. Mac OS X systems may also be vulnerable, but in most cases users are okay to wait for Apple to release a patch—the only exception being users who have enabled advanced services (SSH, web server, etc.); most installations should be resistant to attacks.

As is often the case in these situations, please be on the lookout for fraudulent email on this topic claiming to be from companies with which you do business (including Penn), as criminals may use this event to create phishing email messages designed to trick people into divulging their passwords. *No legitimate party from Penn will ever ask you to share your password.*

If you have any questions about Shellshock please contact: security@isc.upenn.edu

For more information about Shellshock, please see the following summary article:

<http://www.troyhunt.com/2014/09/everything-you-need-to-know-about-shellshock/>

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

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with "subscribe e-almanac <your full-name>" in the body of the message. —Ed.

Engaging Students through Technology Symposium 2014: October 31

The Penn Libraries' David B. Weigle Information Commons is pleased to present their seventh annual Engaging Students Through Technology Symposium on *Friday, October 31*, 10 a.m. to 3:30 p.m.

The guiding question for the annual faculty symposium is:

How can technology empower our students, and us, as learners?

The symposium includes a faculty panel, an undergraduate student panel, two rounds of concurrent workshops and a lightning round. The faculty panel includes Jeffrey Babin (engineering entrepreneurship program), Marybeth Gasman (higher education), Jeffrey Saven (chemistry) and Gwendolyn DuBois Shaw

(history of art). Peter Decherney (cinema studies and English) will facilitate the undergraduate student panel. Discussion will build on perspectives collected from an open student survey at <http://tinyurl.com/upennstud>

Workshop themes include active learning techniques, video production, creative uses of Canvas, building community and improving communication. The program is designed for faculty, teaching staff and graduate students and is co-sponsored by CAMRA, the Center for Teaching and Learning, the Penn Language Center, SAS Computing and the Weingarten Learning Resources Center (VPUL).

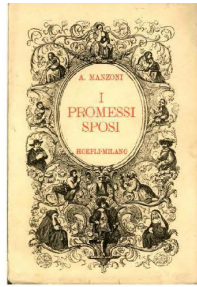
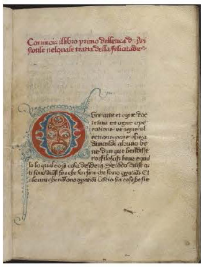
Last year's symposium attracted over 150 participants from all 12 schools. The opportunity to share ideas across disciplines is a key feature of this annual symposium.

For more information and to register, visit <http://wic.library.upenn.edu>

Please send questions to wic1@pobox.upenn.edu



ENGAGING
STUDENTS
THROUGH
TECHNOLOGY
SYMPOSIUM 2014



Writing the New Europe: Italian Publishers, Authors and Readers in the Digital Era, is the theme of the Ciao Philadelphia event October 22 celebrating the 14th World Week of the Italian Language.

Inaugural Year of *Ciao Philadelphia*: A Collaborative Celebration

Ciao Philadelphia is a month-long series of more than 30 events open to the public—coordinated by the Consulate General of Italy in Philadelphia—that will highlight the contributions of Italian-Americans to the Greater Philadelphia region and the world. The University of Pennsylvania's Italian Studies Program is one of the many hosts and partners of *Ciao Philadelphia* and will hold five events on campus throughout this month. City-wide events include concerts, film screenings, architectural tours, demonstrations, exhibits, performances and lectures; see <http://ciaophiladelphia.com>

- *Culture, Climate and Techniques in the Architecture of Renzo Piano* will be discussed in the Salvatori Lecture by Ariel Genadt on October 7, at 6 p.m. in the Cherpack Seminar Room, 543 Williams Hall.

- *My Two Italies*, on October 14, will feature Joseph Luzzi, professor of Italian at Bard College, who will present his book, *My Two Italies*, which tells the story of his family's immigration from Italy and presents an insider's look at the turbulence of life in Italy today. His talk will be at 5:30 p.m. in room 401 Fisher Bennett Hall.

- *Italian Knowledge in the United States*, on October 18, will consist of a roundtable discussion with Italian scholars and researchers in various fields. It will be held in the Terrace Room in Claudia Cohen Hall and the program will begin at 2 p.m. Among the guests will be Umberto Contarello, screenplay writer of *La Grande Bellezza*, who will talk about the 2014 Academy Award Film by Sorrentino. The evening will end with the screening of the film followed by a Q&A.

- *Italian Books, Authors and Readers in the Digital Era*, on October 22, will be held in the Cherpack Seminar Room, 543 Williams Hall; the seminar will begin at 4:30 p.m. It celebrates the 14th World Week of the Italian Language. This year's theme, *Writing the New Europe: Italian Publishers, Authors and Readers in the Digital Era*, will be discussed by faculty, graduate students and undergraduate students in the Italian Program and introduce the audience to the great innovations brought on by the digital era to writing, reading, teaching and learning.

- *Orlando Furioso in 16th and 17th Century Pictorial Cycle* on October 30, will be held in the Meyerson Conference Center in Van Pelt-Dietrich Library at 5:30 p.m. Federica Caneparo, Princeton University, will present her new book, *Di Molte Figure Adornato*. The lecture will be in English.

For more information on these events visit: <http://www.sas.upenn.edu/italians/news>

A Day in the Life of Penn

"A Day in the Life of Penn" is an annual University Communications social media photo project highlighting the work of student, faculty and staff photographers from throughout Penn to illustrate a single day on campus. This year they will be running the event on *Tuesday, October 21*.

The project will document the pace and energy of life at Penn through the eyes of the community as a photo essay culled from Instagram. Starting at 12:01 a.m., participating photographers will capture images of campus activities throughout the morning, the afternoon and into the evening.

They hope to showcase the beauty of the Penn campus, academic life, tours and activities with potential students, community engagement, research, athletics and recreation and other activities. Once captured, "A Day in the Life of Penn" will be presented on the central Penn web and across social media platforms.

Participating is simple: On October 21, take pictures; post them to Instagram; tag your images #PennDayinLife. Craft that perfect single image or post as much as you want. It's up to you.

For more info, visit www.upenn.edu/dayinlife/

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 22-28, 2014**. Also reported were 11 Crimes Against Property (9 thefts, 1 burglary and 1 vandalism offense). Full reports are available at: www.upenn.edu/almanac/volumes/v61/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 22-28, 2014**. 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.

09/23/14	3:16 PM	3620 Locust Walk	Male in building without authorization/Arrest
09/27/14	2:47 AM	4033 Pine St	Unauthorized male in residence/Arrest
09/28/14	2:48 AM	210 S 42nd St	Complainant assaulted by known male
09/28/14	11:14 AM	423 Guardian Dr	Unwanted phone calls and emails received

18th District Report

Below are the Crimes Against Persons from the 18th District: 4 incidents with no arrests (2 robberies, 1 aggravated assault and 1 indecent assault) were reported between **September 22-28, 2014** by the 18th District covering the Schuylkill River to 49th Street & Market Street to Woodland Avenue.

09/27/14	7:18 PM	4300 Pine St	Robbery
09/27/14	9:34 PM	4725 Pine St	Robbery
09/28/14	3:15 AM	4800 Springfield Ave	Indecent Assault
09/28/14	4:15 AM	210 S 42nd St	Aggravated Assault

GIVING is PENN'S WAY

SEPTEMBER 29 – NOVEMBER 14

Raffle Prize Listing Penn's Way 2015 Week 2 (October 6–10)

The Sixers: Signed photo, cap and shirt (\$60)

Wilma Theater: Two tickets (\$50)

Picnic, Inc.: Gift Certificate (\$25)

Penn Ice Rink; Morris Arboretum;

Bon Appétit @ Penn Dining: Business Services' Fun Pack—Admission to Arboretum, Ice Rink, Meal @ Retail Dining (\$57)

Hard Rock Café: Hat and t-shirt (women's) (\$45)

Landmark Theaters: Four VIP Guest Passes (\$40)

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

Mid-Point Grand Prize Drawing

World Travel: Two round-trip airline tickets, anywhere in contiguous 48 states, some conditions apply (\$800)

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/pennsway for more information about the Penn's Way campaign.

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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MIX
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A Message to Penn Students, Families, Faculty and Staff Regarding Mental Health Support at Penn

We write today to remind everyone within the Penn community of the things we can all do to look out for the emotional well-being of our student community. We have a very extensive network of support services on campus, and it is important that faculty, staff, students and families alike are all familiar with this range of offerings.

Last year we established the Task Force on Student Psychological Health and Welfare. This year-long commitment has brought together experts across campus. Due to the vital importance of this issue, we have been implementing their recommendations as they are developed. We expect the Task Force to issue a final report in January and will be incorporating additional recommended measures then.

In recent months, we have increased support to our Counseling and Psychological Services (CAPS), adding a number of clinical staff members and extending the hours that CAPS is open for appointments. CAPS also expanded the comprehensive “iCare” training program, which teaches participants real-time skills to listen and aid students in distress. Already, more than 200 students, faculty and staff have participated in this important effort to teach members of the Penn community tools to support each other.

Very shortly the University will institute the “HELP LINE,” a 24-hour-a-day, single, easy to remember phone number for members of the University community seeking information about how to obtain help for themselves or other Penn community members when confronted with immediate health and wellness concerns.

The subject of mental and emotional issues facing college and university students is a critically important one. More than 1,000 college students commit suicide each year on campuses across the country. While there are no easy answers to this national tragedy, please know that at Penn we are doing everything in our power to reach students in distress and provide them with the highest level of support and care.

For parents and other family members, we urge you to remind your student of the resources that are available to them. Please notify the University if you have any concerns about your student’s emotional health. Similarly, we encourage faculty and staff to be on alert for students who may be struggling and to offer assistance when needed.

Finally, we urge students to take advantage of the programs and other resources that are in place when you think that you or someone you know needs support or help.

—Amy Gutmann, President

—Vincent Price, Provost

—Craig Carnaroli, Executive Vice President

Services that are available to Penn students include:

Counseling and Psychological Services (CAPS):

(215) 898-7021

(215) 349-5490 (Nights and weekends. Ask for CAPS counselor on call.)

University Chaplain’s Office: (215) 898-8456

Student Health Service: (215) 746-3535

Division of Public Safety Special Services 24/7 Hotline: (215) 898-6600

Division of Public Safety Emergency Communications Center: (215) 573-3333

Office of the Vice Provost for University Life/Student Intervention Services: (215) 898-6081

School Advising and Student Affairs Offices:

Annenberg School for Communication: (215) 573-6349

College of Arts & Sciences: (215) 898-6341 (Undergraduate) or (215) 898-7577 (Graduate School)

Dental School: (215) 898-4550

School of Design: (215) 898-6210

School of Engineering & Applied Science: (215) 898-7246

Graduate School of Education: (215) 898-7019

Law School: (215) 898-7491

Perelman School of Medicine: (215) 898-7190

School of Nursing: (215) 898-6687

School of Social Policy & Practice: (215) 746-5895

School of Veterinary Medicine: (215) 898-3525

Wharton: (215) 898-7613 (Undergraduate) or (215) 573-5756 (Graduate School)

College Houses & Academic Services: <http://www.collegehouses.upenn.edu/>