The Wharton School of the University of Pennsylvania is pleased to announce a $2 million gift from Robert Katz (W’88) and his wife Elana Amsterdam to expand the People Lab, a research and education ecosystem built by Wharton People Analytics (WPA) to help people identify and develop qualities vital to their professional growth.

The Katz Fund will support continued development of the People Lab’s infrastructure, education and research. The impact will extend from undergraduate and MBA students to executive education participants, alumni, and external clients. Major milestones anticipated through Mr. Katz’s support include the refinement of assessment tools used to further the individual development of students, executive coaches and organizational partners as well as best-in-class research, education and technology resources.

“The greatest asset for most organizations today is their people,” said Wharton Dean Geoffrey Garrett. “Rob’s incredible gift will allow People Lab to develop cutting-edge, data-based tools not only to help organizations recruit the best talent but also to help people grow in their careers and fulfill their aspirations. People Lab’s work will be invaluable not only to organizations outside the University but also to Wharton as we strive to personalize the world-class education our students receive.”

Mr. Katz’s gift will scale the People Lab’s capacity to advance the science and practice of assessment and development in organizations, building on the success of the People Lab’s pilot programs. The pilots advanced the development of the lab’s core assessments and its delivery platform, serving a select group of Wharton MBA candidates with new character trait assessments and action plans to advance their professional growth.

“In today’s ever-changing business landscape, the core driver of long-term success is the strength of the talent throughout an organization,” said Mr. Katz. “I feel fortunate to be able to provide early support towards the creation of the Wharton People Lab, to better use data and analytics to broaden our understanding of how to assess and develop great business leaders.”

Mr. Katz and Ms. Amsterdam have made several important contributions to Penn since Mr. Katz graduated from Wharton in 1988. They have supported undergraduate financial aid for students in the Jerome Fisher Program in Management & Technology, Professor Sigal Barsade’s research on emotional intelligence; and the Penn Fund. Mr. Katz serves on the Leadership Advisory Board of the McNulty Leadership Program. He is the chief executive officer of Vail Resorts, a premiere mountain resort company and leader in luxury lodging experiences.

Wharton People Lab is a core project of Wharton People Analytics (WPA). With research as its intellectual backbone, WPA partners with organizations to educate the next generation of organizational leaders by conducting research and translating research into practice. The People Lab seeks to create and sustain a diverse network of stakeholders including students, executive education participants, alumni, faculty and external partners.
Deaths

Marshall Blume, Wharton

Marshall Edward Blume, the Howard Butcher III Professor Emeritus of Finance at the Wharton School of the University of Pennsylvania, died January 27 after a sudden and brief illness. He was 77.

After graduating from Trinity College in 1963 with a degree in mathematics, Dr. Blume earned an MBA in 1965 and a PhD in finance in 1968, both from the University of Chicago.

Dr. Blume spent 44 years on the faculty at Penn. He came to the University in 1968 as an assistant professor of finance, moving up to full professor in 1974. He was named the Howard Butler III Professor of Finance in 1978. From 1982 to 1986, Dr. Blume served as chair of the finance department, and from 1986 to 2009, he was also director of the Rodney L. White Center for Financial Research, which established the Marshall Blume Prizes in Financial Research in his honor in 2011. He also helped develop OTIS, Wharton’s Online Trading and Investment Simulator, to help teach students investment and portfolio management. In 1990, he won the Smith Breeden Prize of the Journal of Finance.

Throughout his time at Penn he served on various committees of the Senate, including serving as chair of the Committee on Administration and serving on the Cost-Containment Oversight Committee in the early 1990s. He retired in 2011 and earned emeritus status at that time.

Dr. Blume was widely recognized as a pioneer in empirical asset pricing research and was a noted scholar in investment strategies, investor behaviour and measurement of risk. He was a member of Standard & Poor’s Academic Advisory Board and was chair of the National Association of Securities Dealers (NASD) Economic Advisory Board. He served on the US Government Accounting Office Advisory Committee that investigated the October 1987 stock market crash, he co-founded Prudent Management Advisory Board. He served on the US Government Accounting Office Advisory Committee that investigated the October 1987 stock market crash, he co-founded Prudent Management Advisory Board. He served on the US Government Accounting Office Advisory Committee that investigated the October 1987 stock market crash, he co-founded Prudent Management Advisory Board.

In the recent Fall 2018 cycle of Penn’s internally-funded University Research Foundation, URF Conference and Impact Seminar Support (noted with *), the Office of the Vice Provost for Research has announced awards to the following members of the faculty for the projects listed below.

Fall 2018: URF Awards

Oscar Aguirre-Mandujano, SAS, Poetics of Empire: Literature and Political Culture at the Early Modern Ottoman Court (1452-1512)

Keith Bredemeier, PSOM, Enhancing Working Memory to Reduce Undesirable and Persistent Thoughts (ERUPT): Development of an Adjunctive, Transdiagnostic Intervention

Eugene Buckley, SAS, Kashaya Fieldwork and Database

Robert Carpick, SEAS, Novel Hydrogel Coatings for Intrinsically Lubricating Condoms

Kimberly Christian, PSOM, Functional Role of Adult Hippocampal Neurogenesis in Learning and Memory

Jean-Christophe Cloutier, SAS, Shadow Archives: The Lifecycles of Black Literary Papers

Julie Davis, SAS, Publication Subvention for Two Books: Utagawa and the Spectacle of Beauty; Ukiyo-e in Context

*John Detre, PSOM, Richards-Goddard Interdisciplinary Neuroscience “Brainspace” Forum

*David Dillenberger, SAS, Decision Theory at Penn

Walter Englander, PSOM, Protein Biophysics and Function by Hydrogen Exchange and Mass Spectrometry

*Charles Epstein, SAS, A Conference in Memory of Richard V. Kadison: Titan of the Penn Mathematics Department

*Tulia Falleti, SAS, Indigenous Politics in the Americas

Dalmacio Flores, Nursing, Parents Advancing Supportive and Inclusive Sex Talks

Grant Frame, SAS, Completing the Royal Inscriptions of Ashurbanipal, King of Assyria (668–631 BCE)

*Reto Giere, SAS, Environmental Justice and Health Disparities in the US

*Glenda Goodman, SAS, Early American Music and the Construction of Race

Nicholas Hand, PSOM, Development of a Novel RISC-Trap Mouse Model to Study miRNA Function in Vivo


Daniel Hopkins, SAS, Trump and the Rationalization of Contemporary Americans’ Political Attitudes

F. Bradley Johnson, PSOM, Modeling Dyskeratosis Congenita Lung Pathology to Develop Therapeutic Approaches

*Michael Kahana, SAS, Context and Episodic Memory Symposium 2019

Mia Levine, SAS, Epigenetic Regulation of Reproductive Arrest

Zhongjie Lin, Design, Constructing Utopias: China’s Emerging New Town Movement

James Lok, Veterinary Medicine, Regulatable CRISPR/Cas9 Mutagenesis in Parasitic Nematodes

Michele Margolis, SAS, Who is a Christian in the Age of Trump? Understanding the Consequences of Religious Identification in Politics

*Michael May, Veterinary Medicine, VMD-PhD 50th Anniversary Symposium

*Enrique Mendoza, SAS, Frontiers of Business Cycle Research 25th Anniversary Conference

Peter Noel, PSOM, Ultra-low Dose PET/CT—Reducing the Integral Radiation Dose for each Patient

*Mitchell Orenstein, SAS, Social Impacts of Post-Socialist Transition and Policies for the Future

Laura Perna, GSE, What is the Statutory, Regulatory and Financial Framework for Supporting Learner-Centered Education in K-12 Schools and Civic Engagement in Higher Education

Laurel Redding, Veterinary Medicine, Veterinarian Perspectives on Antimicrobial Stewardship Metrics

*Donald Ringe, SAS, 38th East Coast Indo-European Conference

Marc Schmidt, SAS, Using Computer Vision to Study the Effect of Targeted Neural Circuit Perturbations on Social Behavior in Songbirds

Theodore Schurr, SAS, Exploring African Ancestry in Archeological and Modern Populations from Charleston, South Carolina

Terenjit Sevea, SAS, Publications and Open-access Digital Archive of Southeast Asian Islam and Sikhism

Fatemeh Shams, SAS, Book Project: A Revolution in Rhythm: Official Poets of the Islamic Republic

*Nancy Steinhardt, SAS, Middle Period Archaeology in Mongolia

*Dawn Teele, SAS, The Political Economy of Gender Interdisciplinary Conference

*Franca Trubiano, Design, Architectural Theory Now?, International Conference

Julia Verkholantsev, SAS, Medieval Epistemology and the Writing of History, a Digital Resource

Flavia Vitale, PSOM, Closed-loop Living Deep-brain Stimulation: a Multimodal Approach to Treat Parkinson’s disease

*Bethany Wiggins, SAS, Environmental Storytelling and in Virtual Reality

*Ken Zaret, PSOM, Cellular Plasticity Symposium

To Report A Death

Almanac appreciates being informed of the deaths of current and former faculty and staff members, students and other members of the University community. Call (215) 898-5274 or email almanac@upenn.edu

However, notices of alumni deaths should be directed to the Alumni Records Office at Room 517, Franklin Building, (215) 898-8136 or email record@ben.dev.upenn.edu
The University Research Foundation (URF) is now accepting applications for the 5 p.m., Friday, March 15 deadline. The URF is an intramural program that provides three funding mechanisms: Research and Conference Support, Impact Seminar Grants and Research Opportunity Development Grants.

**URF Research Grants and Conference Support** provides up to $50,000 in project support and up to $3,000 for conference support. Its objectives are to:

- help junior faculty undertake pilot projects that will enable them to successfully apply for extramural sources of funding and aid in establishing their careers as independent investigators;
- help established faculty perform novel, pioneering research to determine project feasibility and develop preliminary data to support extramural grant applications;
- provide support in disciplines where extramural support is difficult to obtain and where significant research can be facilitated with internal funding; and
- provide limited institutional matching funds that are required as part of a successful external peer-reviewed application.

**URF Impact Seminar Grants** will make awards up to $20,000 for support for a cross-school, cross-disciplinary large scale event to be held on Penn’s campus within a year of the award. Funding for this award can be used to augment an already scheduled University event. The event—which can be a symposium, forum or conference—should occur over one to two days and be open to the entire Penn community. It should highlight the scholarship of Penn faculty and bring distinguished scholars to Penn’s campus, with a particular focus on the University’s distinguishing strength in integrating knowledge. Documented school and/or department matching funds are required.

**URF Research Opportunity Development Grants (RODG)**

The Research Opportunity Development Grant program (Phase 1 and Phase 2) was designed to facilitate the intersection of the forward trajectory of Penn’s research frontiers with the trajectory of the national and global research priorities. RODG Applications should map on to emerging research areas with new opportunities for support. Awards from these programs should be used to develop preliminary information and data for new applications in these emerging research areas. The two programs are described at right.

**Research Opportunity Development Grants: Phase 1**

With an identified new research area in mind, Phase 1 grants enable a team to articulate the research focus, map Penn’s intellectual assets in the new area, coalesce the appropriate group of scholars, identify Penn’s potential contributions in the area in the context of national and international research initiatives and identify a funding target. Typically a Phase 1 proposal would lead to a Phase 2 application. In addition, additional attention will be paid to project proposals that include mentorship of Penn undergraduates. Applications up to $10,000 will be considered.

**Research Opportunity Development Grants: Phase 2**

Phase 2 grants offer extensive support for up to two years to enable specific outcomes in support of the Phase 1 projects. Applications can propose an external funding organization, Activities include research workshops, preliminary studies, networking in the relevant research community, etc. Specific outcomes are expected. Documented matching department and/or school funds will be considered positively. In addition, special attention will be paid to project proposals that include mentorship of Penn undergraduates. Applications with requests between $50,000 to $200,000 will be considered.

**Note that Phase 2 grants are not intended to support the development of proposals that respond to regular solicitations such as those for NIH RO1 grants or NSF Division programs. Applicants must identify a target of opportunity.**

**Disciplines for all award programs:** Biomedical Sciences, Humanities, Natural Sciences and Engineering, Social Science and Management.

**Undergraduate Participation:** As part of the University’s commitment to providing research opportunities to scholars across our campus community, URF applicants are encouraged to include undergraduate students within the framework of their proposals.

**Budget:** Each URF program has separate budget requirements.

**Eligibility for all award programs:** Eligibility is limited to Penn assistants, associate and full professors, in any track. Instructors and research associates must provide a letter from their department chair establishing that the applicant will receive an appointment as an assistant professor by the time of the award. Adjunct and emeritus faculty are not eligible to apply. Only one application per PI per cycle. Awards must be expended on University of Pennsylvania facilities, equipment and/or associated University technical staff and undergraduate students.

Detailed information including application materials can be found at https://research.upenn.edu/funding/university-research-foundation/

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**New OVPR Research Funding Opportunities: April 12**

The Office of the Vice Provost for Research (OVPR) is excited to introduce two new research funding opportunities starting in Spring of 2019: Faculty will be able to apply for a grant to support high-risk discovery-based research or a grant to support translational research that has potential for commercialization. These two grants programs are: **Discovering the Future: Accelerating from Lab to Market;** and **Discovering the Future:**

**Discovering the Future: Accelerating from Lab to Market**

A pre-seed grant that allows faculty to receive awards in the range of $10,000 to $50,000 but could be larger if justified (up to $200,000). The lack of external pre-seed funding is often the limiting step for new ideas to come across the “valley of death” between Federal research funding and Seed/Series A funding. The Accelerating Lab to Market pre-seed grant will help to bridge this gap by internally supporting translational research.

Applications for these two new programs will open on Friday February 15, at noon with a deadline of Friday, April 12 at noon. Both grant programs will rely on review by committee and recommendation for funding to the Vice Provost for Research. Applications materials and additional information can be found at [https://upennresearch.smapply.io](https://upennresearch.smapply.io). Additional information is available at [https://research.upenn.edu/funding/](https://research.upenn.edu/funding/)

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**Correction:** On the back page article of the February 5, 2019 issue, the article “Love Temple at Morris Arboretum” incorrectly described the acquisition of Morris Arboretum. Lydia Morris bequeathed her estate to the University of Pennsylvania in her will upon her death in 1932. The arboretum opened to the public in June of 1933 as the Morris Arboretum of the University of Pennsylvania. We regret the error. —Eds.
Commencement 2019: Commencement Speaker and Honorary Degree Recipients

Commencement Speaker

Bryan Stevenson
Bryan Stevenson is the founder and Executive Director of the Equal Justice Initiative (EJI) in Montgomery, Alabama, and a widely acclaimed public interest lawyer who has dedicated his career to helping the poor, the incarcerated and the condemned. A graduate of the Harvard Law School and the Harvard School of Government, he is a professor of law at the New York University School of Law. Under Mr. Stevenson’s leadership, EJI has won major legal challenges eliminating excessive and unfair sentencing, exonerating innocent death row prisoners, confronting abuse of the incarcerated and the mentally ill, and aiding children prosecuted as adults. Mr. Stevenson has successfully argued several cases in the United States Supreme Court, including a recent historic ruling banning mandatory life-without-parole sentences for children 17 or younger.

Mr. Stevenson is the author of the critically acclaimed New York Times bestseller, Just Mercy, which received the NAACP Image Award and was named by Time magazine as one of the 10 best nonfiction books for 2014.

Mr. Stevenson’s work fighting poverty and challenging racial discrimination in the criminal justice system has won him numerous awards, including the MacArthur Foundation Fellowship Award Prize, the Olof Palme International Prize, the ACLU National Medal of Liberty, and the Ford Foundation Visionaries Award. In 2016, Mr. Stevenson received the American Bar Association’s Thurgood Marshall Award, and in 2018, the Martin Luther King, Jr., Nonviolent Peace Prize from The King Center in Atlanta. He has also received the American Bar Association Medal, the Association’s highest honor.

In 2018, EJI opened The Legacy Museum: From Enslavement to Mass Incarceration. Built on the site of a former warehouse where black people were enslaved in downtown Montgomery, the museum examines America’s history of racial injustice and its legacy. EJI has also established the only national memorial acknowledging the victims of racial terror lynchings, the National Memorial for Peace and Justice.

Mr. Stevenson will be receiving an honorary Doctor of Laws.

Honorary Degree Recipients

Jon Bon Jovi
New Jersey native, singer-songwriter, producer and actor Jon Bon Jovi, the front man and founder of the Grammy Award-winning band Bon Jovi, has made self-reliance, optimism, and community key hallmarks of his music and his philanthropy. Since forming in 1983, Bon Jovi has sold more than 130 million albums, earning status as one of the world’s best-selling musical groups, and has performed in more than 50 countries for over 37 million fans. The band was inducted into the Rock and Roll Hall of Fame in 2018, in recognition of its longevity and impact on popular music over the past three decades.

Mr. Bon Jovi is also Chair of the Jon Bon Jovi Soul Foundation, founded in 2006 and dedicated to supporting innovative community efforts to break the cycle of poverty and homelessness. The Soul Foundation funds partnerships that benefit temporary shelters, transitional housing for teens, permanent supportive housing (including for veterans and special needs populations), and home ownership opportunities. In 2011, with his wife Dolores, Mr. Bon Jovi opened the JBJ Soul Kitchen community restaurant in Red Bank, New Jersey with a pay-it-forward model serving both in-need and paying customers. In the aftermath of Hurricane Sandy, a second location in Toms River, New Jersey opened. These community restaurants have since served over 90,000 meals.

Mr. Bon Jovi is a member of the Songwriters Hall of Fame and recipient of American Music and Golden Globe Awards for his original music. In 2012, he was featured on Billboard magazine’s “Power 100” ranking of the most influential people in the music business. In 2010, President Barack Obama appointed Mr. Bon Jovi to the White House Council for Community Solutions.

Mr. Bon Jovi will be receiving an honorary Doctor of Music.

Temple Grandin
Scientist, inventor, teacher, and author Temple Grandin is a renowned animal expert and advocate for autistic communities. Diagnosed with autism as a child, Dr. Grandin credits her parents’ advocacy and early educational intervention as a factor in her success. Dr. Grandin has devoted her career to improving understanding and conditions for livestock and has designed numerous innovations to reduce stress for animals in handling facilities.

Pursuing her education at Franklin Pierce College and Arizona State University and culminating with her doctorate at the University of Illinois-Urbana, today Dr. Grandin is a professor of animal science at Colorado State University and the founder and consultant at Grandin Livestock Handling Systems.

Dr. Grandin is the recipient of a great number of industry awards over four decades, including the Animal Management Award, the American Society of Animal Science; Woman of the Year in Service to Agriculture, Progressive Farmer magazine; the Distinguished Alumni Medalion, National 4-H Council; the Humane Award, American Veterinary Medical Association; and the President’s Award, National Institute of Animal Agriculture.

A champion of “neurodiversity,” Dr. Grandin has been frequently featured in national media. Her story was depicted in a 2010 award-winning HBO film, as well as her memoir Thinking in Pictures and autobiography Emergence: Labeled Autistic. She is the author of over 400 articles and many books on autism as well as animal science, such as Animals in Translation: Using the Mysteries of Autism to Decode Animal Behavior and Animals Make Us Human. Her book, Calling All Minds, was a New York Times best seller for middle school students.

In 2017, Dr. Grandin was inducted into the National Women’s Hall of Fame. She is a fellow of the American Association for the Advancement of Science and the American Society of Agricultural and Biological Engineers.

Dr. Grandin will be receiving an honorary Doctor of Sciences.

Richard G. Lugar
A fifth generation Hoosier, United States Senator Richard G. Lugar was the longest serving member of Congress in Indiana history, serving 36 years. Today he is President of The Lugar Center, a non-profit organization focusing on global food security, non-proliferation of weapons of mass destruction, aid effectiveness, and bi-partisan governance. A professor of practice and distinguished scholar at the School of Global and International Studies at Indiana University, Senator Lugar also serves on the faculty at the University of Indianapolis, leading the Richard G. Lugar Symposium for Tomorrow’s Leaders.

Following graduation from Denison University and study as a Rhodes Scholar, Senator Lugar served in the US Navy. Before election to the Senate, he helped manage the family’s food machinery manufacturing business and served two terms as mayor of Indianapolis.

In six Senate terms, Senator Lugar exercised leadership on critical issues of global food security, nuclear non-proliferation, energy independence, and free trade. He led actions to reduce the threat of nuclear, chemical and biological weapons. With then-Senate Armed Services Chairman Sam Nunn, efforts to destroy weapons of mass destruction in the former Soviet Union resulted in the deactivation of over 7,600 nuclear warheads once aimed at the US. As chairman of the Agriculture Committee, Senator Lugar initiated a biofuels research program to decrease dependency on foreign oil. Senator Lugar also played an instrumental role in enacting US sanctions on the apartheid government of South Africa.

In recognition of his many achievements, Senator Lugar received the American Foreign Service Association Lifetime Contributions to American Diplomacy Award, the J. William Fulbright Prize for International Understanding, and the rank of honorary Knight Commander of the Most Excellent Order of the British Empire.

President Barack Obama bestowed on him the Presidential Medal of Freedom.

Senator Lugar also manages his family’s 604-acre Marion County, Indiana farm.

Senator Lugar will be receiving an honorary Doctor of Laws.
Physician, surgeon, and human rights activist Denis Mukwege decided to study medicine while still a child in Bukavu, Democratic Republic of the Congo. Pursuing medical studies in Burundi and specialization training in France, he earned his medical sciences doctorate from the Université Libre de Bruxelles and returned home to practice in Lemera, where medical care access was severely limited. Enduring a 1996 attack in which hospital personnel were killed, Dr. Mukwege went into exile but soon returned, and in 1999 founded the Panzi Hospital in Bukavu.

Intended for maternity services, Panzi Hospital immediately encountered tremendous numbers of victims of sexual violence committed by armed groups of many origins. Dr. Mukwege has assisted these survivors and women with severe gynecological issues for over two decades and has publicly advocated for the empowerment of Congolese women. Internationally recognized for its holistic response to gender-based violence, Panzi Hospital has treated over 50,000 women and children. This pioneering model integrating psychological and medical care, legal assistance and socio-economic support has been implemented in countries across Africa. To extend the hospital’s outreach efforts, Dr. Mukwege established the Panzi Foundation in 2008.

Despite a 2012 assassination attempt, Dr. Mukwege remains an outspoken advocate on behalf of sexual violence survivors. His efforts have brought greater global attention to the crimes of sexual violence as a weapon of war. Calling on the international community to hold perpetrators to account, Dr. Mukwege continues to raise awareness of the need for quality health care for all, for women’s and human rights, and for peace.

In recognition of this work, he and Yazidi activist Nadia Murad were awarded the 2018 Nobel Peace Prize. He has also received the United Nations Human Rights Prize, Sweden’s Olof Palme Prize, France’s Officier de la Légion d’Honneur, and the Seoul Peace Prize. In 2014, the European Parliament unanimously elected him the Sakharov Prize Laureate, its highest honor.

Dr. Mukwege will be receiving an honorary Doctor of Sciences.

Laurie Olin

Laurie Olin is a distinguished teacher, author, artist and one of the most renowned landscape architects practicing today. Known for his award-winning “people-centric” landscapes gracing cities around the world, Mr. Olin is Practice Professor Emeritus of Landscape Architecture at the University of Pennsylvania’s School of Design, where he taught for over 40 years.

As founding principal of the Philadelphia-based OLIN Studio, he has guided signature projects, such as re-design of the Washington Monument Gardens in Washington, DC, for which Mr. Olin’s Studio won the Design Honor Award from the American Institute of Architects.

Other notable projects include New York City’s Bryant Park, the Getty Center in Los Angeles, and recently, the award-winning Barnes Foundation in Philadelphia and Apple Park in Cupertino, California. For over four decades, Mr. Olin has also contributed significantly to the master planning and development of the University’s campus.

A native of Alaska, Mr. Olin studied civil engineering at the University of Alaska and architecture at the University of Washington. The former chair of the department of landscape architecture at Harvard University and a Guggenheim Fellow, Mr. Olin has written widely on his field, including co-authoring OLIN: Placemaking, a selection of his studio’s most celebrated projects.

In 2018, the School of Design’s Architectural Archives honored Mr. Olin with an exhibition reflecting seven decades of work, including drawings, sketches, and observations from the world over.

Mr. Olin is a Fellow of the American Academy of Arts and Sciences and of the American Society of Landscape Architects. In recognition of his work, he has received the Award in Architecture from the American Academy of Arts and Letters, and the 2012 National Medal of Arts. He also holds the 2011 American Society of Landscape Architects Medal, the Society’s highest award for a landscape architect. The National Building Museum presented him with the 2017 Vincent Scully Prize in recognition of his contributions.

Mr. Olin will be receiving an honorary Doctor of Arts.

Neville Earl Strumpf

Neville Strumpf is a renowned expert in the nursing care of older adults. Until her retirement in 2008, she served as professor of nursing at the University of Pennsylvania’s School of Nursing, where she is also a former interim dean. Since her arrival at Penn as assistant professor in 1982, Dr. Strumpf’s leadership, innovative scholarship, teaching excellence, generous mentorship and leadership contribute to the University and beyond. For her service, Dr. Strumpf is recognized for her contributions. Dr. Strumpf will be receiving an honorary Doctor of Arts.

Jill Cornell Tarter

Astronomer Jill Tarter is the Emeritus Chair for SETI (Search for Extraterrestrial Intelligence) Research at the SETI Institute in Mountain View, California. Dr. Tarter has spent much of her career, spanning over several decades, attempting to answer the age-old human question, “Are we alone?” by searching for evidence of technological civilizations beyond Earth. Dr. Tarter and her groundbreaking work were introduced to the public when actor Jodie Foster portrayed a character inspired by Dr. Tarter in the 1997 film Contact.

When undertaking undergraduate studies in engineering physics at Cornell University, Dr. Tarter was the only woman of 300 engineering students. She went on to receive her master’s and PhD in astronomy from the University of California, Berkeley. Her success as a female scientist has served as a role model for generations of women in science.

Dr. Tarter has served as Project Scientist for NASA’s SETI program, the High Resolution Microwave Survey, and has conducted numerous observational programs at radio observatories worldwide. Since termination of funding for NASA’s program in 1993, she has served in a leadership role to design and build the Allen Telescope Array and to secure private funding to continue SETI exploratory science. The author of more than 170 technical papers, Dr. Tarter lectures extensively both on the search for extraterrestrial intelligence and the need for proper science education.

Dr. Tarter is a Fellow of the American Association for the Advancement of Science, the California Academy of Sciences, and The Explorers Club. She is the winner of the 2009 TED Prize, and in 2012, she was named one of the Time 25 in Space. She was the 2014 Janisky Lecturer and received a Genius Award from Liberty Science Center in 2015. Dr. Tarter served as president of the California Academy of Sciences and was awarded a Lifetime Achievement Award by Women in Aerospace. The Asteroid 74824 Tarter (1999 TJ16) was named in her honor. A biography of Dr. Tarter, Making Contact, was published in 2017.

Dr. Tarter will be receiving an honorary Doctor of Sciences.
Penn Faculty & Staff Family Night with Penn Basketball: February 23

The Division of Human Resources and Penn Athletics invite benefits-eligible faculty and staff to cheer on the Penn Women’s and Men’s Basketball teams at the Palestra on Saturday, February 23.

The Penn teams will take on Cornell. The women’s game begins at 4:30 p.m. and the men’s game begins at 7 p.m. Each Family Night ticket includes a discounted ticket to both games, compliments of Penn Athletics, and a $5 concession coupon redeemable for food and beverage, compliments of the Division of Human Resources. Family Night ticket prices are $6.50 each for adults and youth.

Tickets are required for the back-to-back basketball games. One ticket includes both games. The maximum number of discounted tickets each faulty or staff person can purchase is four tickets. Order tickets online at www.hr.upenn.edu/familynight or at The Penn Athlet-ics Ticket Office, located at Weightman Hall (235 S. 33rd Street between Walnut and Spruce), until Monday, February 18.

Game night promotions include a toast-shaped towel giveaway, while supplies last, recognition of 2004 and 2014 Ivy League Champions at the women’s game, and performances by the Palestra Honor Band and Hula Hooper Lauren Resnick at the men’s game.

To pick up your $5 complimentary concession coupon(s), present your game ticket and your Faculty/Staff PennCard to the Human Resources table outside the entrance to Section 208 the night of the game. A Human Resources representative will give you one coupon per ticket for up to four tickets. Pickup will close at the end of the first quarter. Go Quakers!

Another 2019 Summer Program at Penn

In addition to the many programs and camps listed in the January 29 supplement, here is one more.

Kelly Writers House 2019 Summer Work- shop for Young Writers, a 10-day residential pro-gram for rising high school juniors and sen-iors will take place July 7-17, http://writing. upenn.edu/summer/

This is an opportunity for promising high school writers from diverse backgrounds to learn from Penn’s faculty and staff as well as their fel-low participants at the Kelly Writers House. Participants will live in one of Penn’s College Houses throughout the program and will have opportunities to explore both Penn and Philadelphia when they’re not writing and reading.

The program offers financial assistance in the form of full- and half-tuition grants to a number of participants, thanks to the generosity of longtime friend of the Kelly Writers House, Maury Povich (C’62).

Because of their commitment to keeping the class sizes small and the limitations of the inti-mate space, KWH will only be able to accom- modate a small number of qualified candidates. The application is now open and is due March 3. Please note that admission, or lack thereof, to this program will have no direct impact on a stu-dent’s chances for eventual admission to Penn. More information about the Summer Workshop and access to the application is available online.

Send email to summer-writing-workshop@ writing.upenn.edu with questions.

The Penn & Pencil Club for Penn Staff

A bit more than 20 years ago, about two dozen Penn people, predominantly staff, from across the University and its Health System gathered on the second floor of Houston Hall. They were there in re-sponse to a query about starting a group for staff interested in creative writing. At a university so large, varied and diverse, the thinking was that there would likely be some support for such a proj-ect. The idea for the group was Jennifer Baldino’s, then director of external affairs in the Office of the President. And although the number and makeup of the members has changed over the years, what became known as the Penn & Pencil Club has flourished. In its earliest days, the members met at dif-ferent locations including local restaurants after work hours. Later it found a more permanent and very welcoming home at the Kelly Writers House, where the group has also held annual public readings. P&P has since expanded to include a few who have been part of Penn for more than 20 years and all parts of the University. Among them: the Laboratory for Research on the Structure of Mat-ter (LRSM), the department of pathology and laboratory medicine, the Vet School’s department of pathobiology and its communications team, the University’s Development Office, the Wharton School’s information technology department, the Center for Technology Transfer (now called the Penn Center for Innovation), the publications office of the Health System, the University Press, and Counseling and Psychological Services (CAPS).

The usual practice is to write and submit whatever the individual member prefers, and because P&PC now meets twice a month, there is less waiting time in the queue for submissions to be dis-cussed. The range of submissions that the members consider during the workshops has been very wide. Among the offerings the group has considered in the past: first-person essays; short stories about fashion, with a touch of fantasy; humorous poems about almost any topic under the sun; part of a novel featuring Greek mythological creatures but transposed to the contemporary American Northwest; poems generated by computers—and subsequently published in literary magazines; in-no-tative (aka eccentric) microfiction based on the dictionary; a science fiction novel set in the far Northwest; poems generated by computers—and subsequently published in literary magazines; in-

Planning an Event? Email Almanac

Mounting an exhibit? Orchestrating a con-cert? Planning a play? Showing a film? Let Al-manac know so it can be included in the month-ly AT PENN calendar!

Almanac’s monthly AT PENN calendar is the most inclusive calendar of Penn events on cam-pus. With a readership in print and online, a listing in AT PENN increases visibility and attendance.

Email almanac@upenn.edu with your event details, including the event date, time, topic, speaker information and sponsors. For info, visit https://almanac.upenn.edu/deadlines-for-submitting-at-penn-information

In 2008, the University of Pennsylvania was given the contents of the Gotham Book Mart, the legendary New York City bookstore founded by Frances Steloff in 1920 (Almanac January 27, 2009). To mark the 100th anniversary of the store’s founding, the Kislak Center for Special Collections, Rare Books and Manuscripts will host an exhibition in honor of Ms. Steloff and her famous bookshop. For decades the Gotham Book Mart was, as Ms. Steloff prosaically put it, “the headquarters of the avant-garde.” The exhibition, Wise Men Fish Here: A Centennial Exhibition in Honor of the Gotham Book Mart, 1920–2020, explores the shop’s role in assembling, publishing and promoting groundbreaking experimental writers, as well as its later years under the ownership of Ms. Steloff’s hand-chosen successor, Andrew Brown, focusing on Mr. Brown’s passion for postcards and collaborations with graphic artist Edward Gorey. The exhibition runs from February 18-May 20, 2019 at the Van Pelt Library.

For the past eight years, Penn Libraries curators and staff have unpacked and processed over 200,000 items and unveiled 150 linear feet of archival materials. From this mass of “stuff,” Curator David McKnight has, with the assistance of Katherine Aid and Camille Davis, selected 300 pieces ranging in date from 1900 to 2000. Drawing upon the collection’s vast array of material evidence—books, periodicals, manuscripts and ephemera—the exhibition will narrate the history of the shop from its earliest beginnings to its demise in 2005.

Modernism - Materiality - Meaning Conference: February 29-March 2

In conjunction with Wise Men Fished Here: A Centennial Exhibition in Honor of the Gotham Book Mart, 1920-2020, the Kislak Center is hosting a conference from February 28 to March 2 on the theme of Modernism - Materiality - Meaning. The Conference will be held in the Library’s Class of 1978 Orrey Pavilion, Kislak Center for Special Collections, Rare Books and Manuscripts. During its formative years, the Gotham Book Mart was one of the few book shops in North America to specialize in avant-garde and modernist literature, film and art. Responding to the growing interest in the concept of the modernist book store, the three-day conference will provide a framework to explore the role of the Gotham Book Mart within the larger context of the printing arts, non-commercial publishing, retailing and the marketing of modernism; as well as, examining the important role of little magazines and small presses, Surrealism; the New York poetry scene; the Beats and Edward Gorey. The conference will be preceded by a film festival inspired by the Gotham Book Mart promotion of Modernist film. Other events will include a poetry reading, panels and workshops. The keynote speaker is professor Andrew Thacker, from Nottingham Trent University.

Thanks to the generosity of the Jay Kislak Endowment, the conference is free and open to the public. Registration is required; seating is limited. Register by February 15 at https://www.alumni.upenn.edu/modernism
Improving End-of-Life Care Quality

For cancer to spread, it needs a hospitable environment in distant organs. This fertile “soil” can provide a home to circulating malignant cells. Recent research has shown that cancer cells from the primary tumor can help ready this soil by sending out small vesicles that contain a cocktail of molecules that signal healthy cells to prepare the target tissues for cancer cells to seed and thrive. Blocking this process offers one strategy to stop metastasis.

New research from Penn’s School of Veterinary Medicine has identified an FDA-approved drug that, when used with surgery, hampers metastasis in an animal model.

Originally developed and approved nearly 65 years ago to control blood pressure, the medication reserpine prevents what are known as tumor-derived extracellular vesicles (TEVs) from fusing to healthy cells and sharing their cargo of disease-promoting molecules, the research team found.

To understand how TEVs influenced the reprogramming of healthy cells to contribute to a metastatic soil, they used a mouse model possessing a protein resistant to degradation. These mice, they found, resisted uptake of TEV, and did not develop lung metastases from melanoma tumors.

The team discovered that healthy cells from these mice were less likely to take up the TEVs because the lipid membrane of the vesicle did not efficiently fuse with the lipid membrane of the cell.

“At that point, we started thinking that this continuous swallowing of vesicles by healthy cells is important for the ‘education’ of normal cells,” said Serge Fuchs, professor of cell biology. “That suggested to us that any event that would interrupt this continuous uptake of the vesicles by normal cells might be able to disrupt their reprogramming, and might be antitumorigenic.”

The researchers found success in pretreating cells with 25-hydroxycholesterol (25HC), a compound that is induced by interferon and has been shown to disrupt fusion of lipid membranes. But 25HC degrades quickly in the body. The scientists then landed on reserpine.

While reserpine alone given to mice with a melanoma tumor appeared to have little effect on tumor growth and survival, mice that received the reserpine treatment before and after surgery seemed to disrupt the reprogramming of healthy cells. Overall survival of these animals significantly improved, and the treatment “virtually eliminated” evidence of lung metastases, the researchers report.

“We are eager to get this into the hands of medical and veterinary oncologists,” Dr. Fuchs said.

Link Between Illness and Sleep

Little is known about what genetic or molecular forces drive the need to sleep—until now. In a study of over 12,000 lines of fruit flies, researchers from Penn’s Perelman School of Medicine have found a single gene, called nemuri, that increases the need for sleep. The findings were recently published in Science.

The NEMURI protein fights germs with its inherent antimicrobial activity and is secreted by cells in the brain to drive prolonged, deep sleep after an infection.

While it’s a common notion that sleep and healing are tightly related, our study directly links sleep to the immune system and provides a potential explanation for how sleep increases during sickness,” said senior author Amita Sehgal, professor of neuroscience and director of Penn’s Chronobiology Program.

Without the nemuri gene, flies were more easily aroused during daily sleep, and their acute need for an increase in sleep—induced by sleep deprivation or infection—was reduced. On the other hand, sleep deprivation, which increases the need for sleep, and to some extent infection, stimulated nemuri to be expressed in a small set of fly neurons nestled close to a known sleep-promoting structure in the brain. Overexpression of nemuri increased sleep in bacteria-infected flies and led to their increased survival compared to non-infected control flies.

In response to infection, NEMURI appears to kill microbes, most likely in the intestinal parts of the fruit fly body, and increases sleep through its action in the brain. Several molecules like NEMURI, which is an antimicrobial peptide (AMP), have multiple functions that help combat infection, but its sleep-promoting role may be just as important for host defense, the researchers suggest, given that increased sleep during sickness promotes survival in the flies.

The authors note that cytokines such as interleukin-1 (IL-1), an immune cell molecule, are implicated in human sleep. IL-1 can function in the same pathway as AMPs, and it accumulates after prolonged wakefulness and appears to promote sleep. In mammals, cytokines can induce production of AMPs, but AMPs may also affect the expression of cytokines. Given this relationship, the researchers conclude that NEMURI is a working link between immune function and sleep.

“The NEMURI protein is a genuine driver of keeping sleep on track under conditions of high sleep need like when we’re sick,” said first author Hirofumi Toda, a postdoctoral fellow in Dr. Sehgal’s lab. “In the next phase of our work, we plan to investigate the mechanism by which NEMURI drives sleep.”

Metallic Wood” Strong as Titanium, Floats on Water

Researchers at the University of Pennsylvania’s School of Engineering and Applied Science, the University of Illinois at Urbana-Champaign, and the University of Cambridge have built a sheet of nickel with nanoscale pores in it. Using it to make a strong titanium but four to five times lighter.

The empty space of the pores, and the self-assembly process in which they’re made, make the porous metal akin to a natural material, such as wood. Infusing the empty space with anode and cathode materials would enable this metallic wood to serve double duty: a plane wing or prosthetic leg that’s also a battery.

The study, published in Nature Scientific Reports, was led by James Pikul, assistant professor in the department of mechanical engineering and applied mechanics at Penn Engineering.

The struts in the researchers’ metallic wood are around 10 nanometers wide, or about 100 nickel atoms across. Other approaches involve using 3D-printing-like techniques to make nanoscale scaffolding with hundred-nanometer precision, but the slow and painstaking process is hard to scale to useful sizes.

“We’ve known that going smaller gets you stronger for some time,” Dr. Pikul said, “but people haven’t been able to make these structures with strong materials that are big enough that you’d be able to do something useful. Most examples made from strong materials have been about the size of a small flea, but with our approach, we can make metallic wood samples that are 400 times larger.”

Dr. Pikul’s method starts with tiny plastic spheres, a few hundred nanometers in diameter, suspended in water. When the water is slowly evaporated, the spheres settle and stack like cannonballs, providing an orderly, crystalline framework. Using electroplating, the same technique that adds a thin layer of chrome to a hubcap, the researchers then infiltrate the plastic spheres with nickel. Once the nickel is in place, the plastic spheres dissolve with a solvent, leaving an open network of metallic struts. Roughly 70% of the resulting material is empty space. With a density on par with water’s, a brick of the material would float.

Replicating this production process at commercially relevant sizes is the team’s next challenge.

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ALMANAC February 12, 2019