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José A. Bauermeister: Penn Nursing's Family and Community Health Chair

José A. Bauermeister, Presidential Professor of Nursing, will be the next chair of Penn Nursing's department of family and community health, effective July 1.

"As a Presidential Professor with an extraordinarily strong program of research, director of the Program on Sexuality, Technology and Action Research (PSTAR) and past chair of Faculty Search, José has already demonstrated strong leadership abilities both within and outside the School," said Penn Nursing Dean Antonia Villarruel. "He is known for his exceptional organizational skills and has a proven track record of successful formal and informal mentoring of junior and mid-level faculty. José has a diverse background which includes immersion in the profession of nursing and a full commitment to interdisciplinary research, education and practice. In addition, he has a great understanding of



José Bauermeister

the complexities of School and University policies and procedures, is a Penn Fellow and sits on several University committees."

Dr. Bauermeister's research integrates perspectives from public health, social science, medicine and human sexuality to create interdisciplinary strategies to curtail HIV disparities among sexual and gender minority adolescents and young adults. His work has been published in more than 200 scientific publications and book chapters in the areas of HIV/AIDS, online partner-seeking behaviors, LGBTQ health and cognitive and emotional well-being.

Dr. Bauermeister has been funded for \$30 million as principal investigator in federal and foundation awards, and over \$120 million as co-investigator in federally-funded research.

He serves in the National Institutes of Health's Sexual and Gender Minority Research Working Group and the Population and Public Health Approaches to HIV/AIDS Study Section. He is a Fellow of the College of Physicians of Philadelphia, one of the Aspen Institute's 2019 class of Health Innovators Fellows and a member of the Aspen Global Leadership Network.

Dr. Bauermeister earned a PhD and MPH from the University of Michigan and a BA from the University of Puerto Rico-Mayagüez.

Valarie Swain-Cade McCoullum: Vice Provost for Student Engagement



Valarie Swain-Cade McCoullum

Provost Wendell Pritchett announced that Valarie Swain-Cade McCoullum, Vice Provost for University Life, has agreed to accept a new position in July as Provost's Distinguished Senior Fellow of Student Engagement at the Graduate School of Education and Vice Provost for Student Engagement.

In this new position, Dr. Swain-Cade McCoullum will develop and implement a comprehensive strategy for Penn's pipeline and college preparatory programs. She will work with students, faculty and campus leaders to enhance student engagement in pipeline educational programs while partnering with Philadelphia school leaders to support college preparation in Philadelphia schools. She will focus on aligning the goals and approaches of all of the pipeline programs across campus, with the aim of improving the students' experiences and outcomes in those programs. At GSE, she will collaborate with faculty members to pilot innovative new approaches and to review and assess existing pipeline programs while teaching two courses a year in her areas of expertise.

Dr. Swain-Cade McCoullum has been Vice Provost for University Life since 1995, serving students across 32 departments and providing invaluable guidance to generations of students, faculty and colleagues. She first came to Penn in 1977 and has held a wide range of positions in university life, encompassing such areas as undergraduate honors programs, Commonwealth programs, graduate academic affairs and campus space allocation. At other points in her career, she has been interim President of Cheyney University, faculty director of Du Bois College House and a teacher in both the Philadelphia and Camden school systems, leading to her lifelong commitment to pipeline and college preparatory programs. A product of the Philadelphia School District, she graduated from the Philadelphia High School for Girls and the Masterman School before going on to earn her BAS at Penn State and an EdD and MEd at Temple.

There will be more information soon about a search to fill the position of VPUL.

Carol Curley: Creating Space—Currently Under Construction—to Create, Collaborate and Congregate

Carol Curley (WG'81), chief investment officer of Charian Ventures and managing director at Golden Seeds, an early-stage investment firm that focuses on women entrepreneurs, knows the importance of spaces that encourage creativity, innovation and collaboration—all key components for a successful young business. She also knows how those spaces create meaning and memories.

That is why she chose to memorialize her grandfather, Henry J. McCue, by naming two Pin-Up Studios (a lounge and display area for recent work and success stories, as well as a space to congregate and collaborate) after him in Tangen Hall, Penn's new home for student entrepreneurs, currently under construction at 40th and Sansom streets (*Almanac* May 14, 2019).

By making a gift to name these new spaces, Ms. Curley is paying forward her family's commitment to higher education. "My grandfather, Henry J. McCue, not only encouraged me to pursue higher education, but also funded my college education," she said. "I thought, 'Wouldn't it be fun to have a space named for him that was filled with students and their dreams?'"

The ambitions of Penn and Wharton students are what first dazzled Ms. Curley when she judged the Wharton Summer Venture Awards in 2013. "I was blown away," she said. The Summer Venture Award provides \$10,000 in funding to assist students financially over the summer in lieu of full-time internships so that they can concentrate on developing their entrepreneurial ventures.

Since then, Ms. Curley has joined Penn

Wharton Entrepreneurship's advisory board, judged several Startup Showcases and presented to students for courses and capstones. Naming student spaces is just one more way to strengthen her connection to Wharton.

The Pin-Up Studios in memory of Mr. McCue will be modern co-working spaces where student teams can work, discuss and create. "It sounded like it would be a very social space that is welcoming to everybody. That was really important to me," Ms. Curley said.

Ms. Curley has been investing in and advising early-stage companies for more than 20 years, focusing on women-led ventures and those in sectors with a technology and finance orientation such as healthtech, software-as-a-service and fintech.

Wharton's focus on finance and analytics means that students learn how to turn ideas into reality and bring them to scale. In Ms. Curley's experience, scaling is less about the idea and more about execution.

"Most businesses fail because of a lack of execution," she said. "They can't get the app launched, they weren't able to understand the client's needs. One of the reasons investors like me focus a lot on the team—sometimes even before the idea—is to get a sense of whether the team can understand what it takes to move the business forward."

Ms. Curley said her connection to student entrepreneurs at Penn will endure for years to come. "I will continue to be involved with the mission of entrepreneurship," she said. "I see that as an important distinction for the University."

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SENATE From the Senate Office

The following is published in accordance with the Faculty Senate Rules. Among other purposes, the publication of SEC actions is intended to stimulate discussion among the constituencies and their representatives. Please communicate your comments to Patrick Walsh, executive assistant to the Senate Office, either by telephone at (215) 898-6943 or by email at senate@pobox.upenn.edu

Faculty Senate Executive Committee Actions Wednesday, February 12, 2020

Chair's Report. Faculty Senate Chair Steven Kimbrough reported that the Vice Provost for Education welcomes comments on the proposed 2022-2023 academic calendar, which was shared with SEC members. Comments may be submitted to jeanose@upenn.edu through March 18, 2020.

2020 Senate Committee on Committees. The roster for the 2020 Senate Committee on Committees was discussed and additional new members were identified.

Past Chair's Report. Faculty Senate Past Chair Jennifer Pinto-Martin offered an update on the 2019 Your Big Idea Wellness program. Three initiatives were funded and have been launched. The Penn Food and Wellness Collaborative (<http://www.cphi.upenn.edu/cphi/Penn-Food-and-Wellness-Collaborative.html>) is leading the creation of the "Penn Park Farm," Penn's first campus urban farm. Construction of a garden and greenhouse is in progress at the farm. The farm will be host to a wide variety of programming including class visits, internships, workshops, volunteer opportunities and events, with an emphasis on promoting wellness on campus. NatureRx at Penn (<http://www.cphi.upenn.edu/cphi/nature-rx-at-penn.html>) based on a successful model at Cornell University, engages Penn students, faculty and staff to spend time in nature in order to reduce stress and anxiety, increase energy and have protected, restorative time. A "prescription pad" and app directs users to one of 12 green spaces in walking distance from the central campus. In addition, ongoing themed wellness walks (<http://www.cphi.upenn.edu/cphi/Weekly-Themed-Wellness-Walks.html>) welcome from 10 to 50 participants each week. Any community member may register to host a wellness walk.

The theme of wellness has infused the campus community. The Office of Student Conduct's Restorative Practices at Penn (<https://www.osc.upenn.edu/mediation-conflict-resolution-meditation>) emphasize a shift in resolving violations of the Code of Student Conduct away from punitive measures and toward health-and-wellness-focused measures of resolving conflicts in productive ways. Stickers and flyers with information about accessing behavioral wellness resources were distributed to all, courtesy of the Department of Public Safety and the Office of the Vice Provost for Education.

Update from the Office of the Provost. Provost Wendell Pritchett continued the discussion on civically engaged scholarship that SEC began with President Amy Gutmann in January 2020. Provost Pritchett reminded SEC that the matter of civically engaged scholarship is a longstanding personal passion of his, as evidenced by his Graduate Academic Engagement Fellowship Program (<https://penntoday.upenn.edu/news/inaugural-provosts-graduate-academic-engagement-fellowships-awarded>). Although University rules require excellence in research, teaching and service, tenure standards in each of these areas are set at the department or School level rather than at the University level. Provost Pritchett suggested that because "cultural" change (in determining which activities are considered excellent and merit tenure) largely originates at the grassroots level, SEC members should initiate conversations on these matters at the departmental level. He stated a willingness to start a discussion with the deans and a willingness to consider whether development of school-level conversation starting points for use by deans would be beneficial.

Moderated Discussion. Professor Kimbrough encouraged SEC members to begin dialogues on the role of public engagement in promotion and tenure with constituents in their departments. A short-term goal might be to ask departments or schools (as appropriate) to add a question to annual faculty activity reports: "Did you engage in any other activity that you believe shows evidence of excellence and does not readily fit into the categories of research, teaching, or service?" SEC members concurred that "innovation" should be included in this fourth category, and that the term "broader impacts" should be used rather than "engagement" to minimize language having potential political connotations. SEC members also encouraged that a similar question be added to the Vice Provost for Faculty's next climate survey.

University Council Open Forum Topics February 19, 2020

The following topics have been submitted for the Open Forum at tomorrow's Council meeting in Hall of Flags, Houston Hall:

1. Promoting access to nonviolence via the required curriculum. (Matthew Harman, LPS'21)
2. Proposed solution to low voter turnout. (Borna Saeednia, Gr'27)
3. A former undocumented student's perspective on the speaking invitation of Thomas Homan, former acting director of US Immigration and Customs Enforcement (ICE). (Abraham Sandoval Iniguez, C'22)
4. Positioning Penn as a global leader in climate change adaptation and mitigation efforts. (Damien Koussis, W'20)
5. Penn's responsibility toward its international student population with regard to climate change. (Marcela Gomez, C'22)
6. Climate change and the need to divest from all sectors of the fossil fuel industry. (Ari Bortman, EAS'21)
7. Title IX reporting. (Claire Medina, C'22)
8. Sexual violence, reporting systems and mediation. (Sahitya Mandalapu, W'20, Panhellenic Council)
9. The location of Penn Violence Prevention and its proximity to the center of campus. (Serena Martinez, C'22)
10. Mandatory consent circles for all freshmen. (Chinaza Okonkwo, C'22)

University of Pennsylvania Trustees Meetings February 27-28, 2020

Penn Trustees' meetings will be held at the Inn at Penn. Observers are asked to call (215) 898-7005 to indicate their intention to attend.

Thursday, February 27

8:30-10 a.m.: Local, National & Global Engagement Committee

10:15-11:45 a.m.: Joint Meeting: Ad Hoc Committee on Diversity and Academic Policy Committee

10:15-11:45 a.m.: Facilities & Campus Planning Committee

2-3:30 p.m.: Student Life Committee

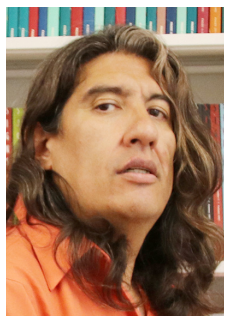
3:45-5:15 p.m.: Budget & Finance Committee

Friday, February 28

11:30 a.m.-12:30 p.m.: Stated Meeting of the Trustees

Ricardo Bracho: Inaugural Abrams Artist-in-Residence

Ricardo A. Bracho has been named the first Abrams Artist-in-Residence in Penn Arts & Sciences in the Alice Paul Center for Research on Gender, Sexuality and Women's Studies. Artists-in-residence are outstanding visual artists, musicians, writers and other creative practitioners who work with students and faculty.



Ricardo Bracho

Mr. Bracho is a writer, editor and teacher who has worked in community and university settings, theater and video/film, politics, and aesthetics for the past 29 years. His other academic ap-

pointments include visiting multicultural faculty at The Theatre School at DePaul University in Chicago and artist-scholar in residence at the Center for Chicano Studies at the University of California at Santa Barbara.

Mr. Bracho's award-winning plays, including *The Sweetest Hangover*, *Sissy*, *Puto* and *Mexican Psychotic*, have been produced in Los Angeles, New York and San Francisco, as well as workshopped and staged nationwide. He focuses on community issues, including social justice, public health and the arts with queer and trans youth of color, Latina/o/x high-risk populations, queer men of color and incarcerated men. He has been a participant in the NEA/Theatre Communications Group residency program and with Mabou Mines, a long-running experimental theater group. He is currently compiling his selected plays for publication, as well as at work on *Operation Space Maize*, an

intergalactic queer comedy and love story about Los Angeles and Galaxy 1-B.

"Art is central to humanistic inquiry and a liberal arts education that prepares students to live in a complex and interconnected world," said Steven J. Fluharty, SAS dean. "The Abrams Artists-in-Residence program allows us to bring important voices to campus to act as mentors and collaborators."

David C. Abrams (C'83, PAR'12, PAR'15) and Amy L. Abrams (PAR'12, PAR'15) established the Abrams Artists-in-Residence Fund at the School of Arts & Sciences in 2018. They have generously supported Penn Arts & Sciences priorities over the years. He is managing partner of Abrams Capital, LLC, an investment firm and served as a Penn Arts & Sciences Overseer from 2010 until this year.

Orphan Disease Pilot Grants: March 6

The Orphan Disease Center (ODC) at the University of Pennsylvania, in collaboration with the LouLou Foundation, is pleased to announce the 2020 CDKL5 Program of Excellence Pilot Grant Program. CDKL5 Deficiency Disorder (CDD) is a monogenic, neurodevelopmental disorder characterized by treatment-resistant epilepsy and severe neurodevelopmental delay. The disease is driven by the loss of a kinase called CDKL5 which is responsible for normal neuronal development, synapse formation and signal transmission. The mechanism(s) by which loss of CDKL5 expression leads to CNS disease is unclear. The gene encoding this protein is located on the X chromosome with heterozygous females primarily affected. The disease does not exhibit neurodegeneration and animal models strongly suggest the potential for reversibility. There are no approved therapies and standard of care is not effective at managing seizures or improving neurodevelopmental or motor deficits.

We are seeking grant applications that progress the discovery or development of treatments and/or a cure for CDKL5 Deficiency. We recognize, however, that many gaps exist in the basic understanding of CDKL5 and its role in neurological development. Therefore, basic science projects that address these gaps are welcome, provided that they are tethered to the development of a potential therapy. While the RFA is broad in scope, priority will be given to grants that cover the following areas:

1. Novel therapeutic approaches for CDD
2. Validation of phenotypes in CDKL5 function or disease pathophysiology
3. Systems biology and computational modeling approaches
4. Novel application of imaging and functional techniques
5. Discovery and validation of CDKL5 biomarkers

Letters of Interest (LOIs) are due no later than *Friday, March 6, 2020* by 5 p.m. EST. Grant criteria and additional program details can be found at <https://tinyurl.com/orphandiseasegrantcriteria>

If you aren't directly interested in this pilot grant program, please share these funding opportunities with those holding a faculty-level appointment in your department, or other faculty who may be interested in this area of research. All applicants must first submit a letter of Interest (LOI) to be reviewed for consideration of a full application submission. LOIs are due no later than the date indicated above and can be uploaded online at: <https://tinyurl.com/orphandiseasepilotgrant2020>

—Leslie Silverman,
Project Coordinator,
Patient Outreach and Program
Management, Orphan Disease Center,
Perelman School of Medicine

Deaths

Donald Campbell, Pediatrics

Donald E. Campbell, associate professor emeritus C-E in pediatrics at the Perelman School of Medicine, died January 21. He was 73.

Dr. Campbell earned a BS from Delta State University in Cleveland, Mississippi in 1969, an MS from the University of Mississippi School of Medicine in 1973 and a PhD from the University of Mississippi School of Medicine in 1975.

He joined Penn in 1987 as a clinical assistant professor of pediatrics in the School of Medicine. He went on to be promoted to assistant professor, assistant professor C-E, and in 1996 he was promoted to associate professor C-E. His area of expertise was quantitative flow cytometry. Dr. Campbell also served as the scientific director for the Clinical Immunology Laboratory at CHOP. He retired in 2010.

Robert Campbell, Radiology

Robert E. Campbell (M'57, INT'59), former professor of radiology at Penn's Perelman School of Medicine, died February 2 from acute heart failure at the Hospital of the University of Pennsylvania. He was 88.

Dr. Campbell was born in Salem, Ohio. He graduated from Phillips Exeter Academy in New Hampshire, earned a BA from Harvard, and a medical degree from the Penn School of Medicine in 1957. He then interned at Pennsylvania Hospital in 1959 and served a residency at HUP.

He contributed more than 50 years of service to Pennsylvania Hospital, The University of Pennsylvania School of Medicine and Jefferson Medical College. Dr. Campbell joined the faculty at Penn's School of Medicine in 1958 as an assistant instructor of radiology. He was an instructor and a resident from 1961 to 1964 and then became a full instructor. He became an assistant professor in 1970, an associate professor in 1973 and a professor in 1976, all in radiology. He left Penn in 1995 but returned in 1997 as a clinical professor; he stayed at Penn until 2011.

He served in the radiology department at Pennsylvania Hospital from 1955 to 2005 and

was chair of radiology from 1986 to 2005. This past January, HUP announced the Robert E. Campbell Endowed Professorship in Radiology at Pennsylvania Hospital.

In addition to mentoring radiologists at PSOM, he also worked with young radiologists at Jefferson Medical College (now Sidney Kimmel Medical College) and was a consultant to Wills Eye Hospital. He served the College of Physicians of Philadelphia as board chairman and president.

Dr. Campbell was involved with the Radiological Society of North America for two decades, holding numerous positions including first vice president in 1981 and president in 1989. He was a founding trustee and chairman of the Radiological Society of North America's Research and Education Foundation. In 1993, he received the society's Gold Medal. He also served as chancellor of the American College of Radiology and received the College's Gold Medal in 2006. He was chairman of the examination committee of the American Board of Radiology and the first honorary member of the European Congress of Radiology (now the European Society of Radiology). Dr. Campbell received Pennsylvania Hospital's Good Samaritan Award in 2004 and the Philadelphia County Medical Society's 2007 Strittmatter Award, the organization's highest honor.

He authored numerous publications and was editor of *Contemporary Diagnostic Radiology*.

Dr. Campbell is survived by his wife, Nancy; children Rob, Nan Bussey and Rick; and 11 grandchildren.

Allen Myers, Rheumatology

Allen Richard Myers (C'56), former associate professor of rheumatology in Penn's School of Medicine, died January 15 at his home in Ardmore after a long battle with Alzheimer's disease. He was 85.

Dr. Myers was born in Baltimore. He majored in zoology at Penn, graduating in 1956, and then he went on to earn his medical degree from the University of Maryland.

Dr. Myers joined the Penn faculty in 1969 as an assistant professor of medicine. He went on to become an associate professor of rheumatology in 1974, and he left the University in 1978. He subsequently served as dean of Temple University's School of Medicine and also served on the US Public Health Service Commissioned Corps. Dr. Myers wrote several medical textbooks and was an active member of the College of Physicians of Philadelphia, where he served a term as president from 2000 to 2002.

Dr. Myers is survived by his wife, Ellen P. (GEd'75, Gr'87); sons Robert, David and Scott; and five grandchildren.

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 Suite 300, 2929 Walnut St., (215) 898-8136 or email record@ben.dev.upenn.edu

Ripple Blockchain Research Fund Call for Proposals: March 17

The Wharton School and Penn Engineering are now accepting proposals for the 2020 Ripple Blockchain Research Fund Call for Proposals. All Penn standing faculty are eligible to submit their proposals.

The Ripple Project at Penn is funding blockchain research projects across the University through the Wharton School and the School of Engineering, supporting individual or collaborative faculty projects which may be cross-disciplinary and/or cross-School. As an emerging technology, blockchain requires rigorous academic research to address its capabilities, applications, security and legality.

Proposals are due *March 17, 2020*. For additional details and submission instructions for Wharton, contact Patricia Palmieri at palmierp@wharton.upenn.edu For additional instructions and details on applying for Penn Engineering funds, contact Craig Ryan at cdryan@seas.upenn.edu

Penn is among 17 initial leading global universities engaging with Ripple through its University Blockchain Research Initiative. For more information on this initiative, please visit: <https://ripple.com/insights/ripple-introduces-the-university-blockchain-research-initiative/>

Honors & Other Things

Masoud Akbarzadeh: NSF CAREER Grant

Assistant Professor of Architecture **Masoud Akbarzadeh** has received a Faculty Early Career Development (CAREER) Grant from the National Science Foundation. The grant will support the development of a robust computational framework for the use, development and integration of geometry-based structural design methods in three dimensions.



Masoud Akbarzadeh

The CAREER grant is the NSF's most prestigious award for junior faculty members who exemplify the role of teacher-scholar through outstanding research, excellence in teaching and the integration of education and research within the context of the mission of their organizations.

As director of the Polyhedral Structures Lab at the Weitzman School, Dr. Akbarzadeh is charting the unexplored realm of efficient spatial structural designs. Straddling design and engineering, his work is rooted in 2-D graphical statics, powerful geometric techniques that have been used to determine the forms of many iconic bridges and long-span structures over the past 150 years. But he intends to build on that legacy by establishing the mathematical foundations of 3-D graphic statics. The project's goals include the development of open-source software, a web-based, interactive educational platform and library and activities through which students, designers and practitioners can learn, share, explore and design innovative, high-performance, lightweight spatial structural solutions.

Mary Regina Boland: AMIA Fellow

Mary Regina Boland, assistant professor of informatics in the department of biostatistics, epidemiology and informatics at the Perelman School of Medicine and senior fellow in the Institute for Biomedical Informatics, was recently inducted as a Fellow of the American Medical Informatics Association (AMIA). This achievement recognizes awardees for their expertise in evidence-based informatics practice and engagement with a community of lifelong learners who apply the latest advances in informatics to improve health and health care. Dr. Boland's research focuses on how environmental and socioeconomic factors play a role in women's health and fetal outcomes. She will be formally inducted into the fellowship at the AMIA 2020 Clinical Informatics Conference in May 2020.

Daron G. Ferris: Renfield Foundation Award

Daron G. Ferris, the founder of CerviCusco, will receive the 2020 Penn Nursing Renfield Foundation Award for Global Women's Health for his dedication to cervical cancer prevention among the indigenous women in Cusco, Peru. Dr. Ferris created CerviCusco, a non-profit organization that ensures that all women, including those with limited economic resources, have access to high-quality and affordable health education and care, including screening, diagnosis

and treatment of cervical cancer. Dr. Ferris will receive the award, which comes with a \$100,000 prize, during an event at Penn on April 23.

"Dr. Ferris is a leading clinician, educator and researcher whose focus on cervical cancer treatment and prevention has improved the lives of countless women, and their families," said Penn Nursing Dean Antonia Villarruel. "His innovative approach to establishing health-care access for underserved women, establishing international partnerships with nurses and other interdisciplinary colleagues and building community capacity to improve the lives of women make him—and CerviCusco—exemplary recipients of the Penn Nursing Renfield Foundation Award winner."

Richard Gelles: SSWR Social Policy Researcher Award

Richard J. Gelles, Joanne and Raymond Welsh Chair of Child Welfare and Family Violence at SP2 and managing faculty director of the Field Center for Children's Policy, Practice and Research, was honored for his distinguished career achievements at the 2020 Society for Social Work and Research (SSWR) conference, held this year in Washington, DC. At the SSWR awards ceremony, Dr. Gelles was presented with the prestigious Social Policy Researcher Award, which commemorated his cumulative career accomplishments, prolific scholarship and exemplary leadership in social work and policy research.

Dr. Gelles is an internationally-acclaimed expert and pioneer in family violence and child welfare with a decades-long commitment to education, research and policy reform. He has authored or coauthored 26 books, in addition to more than 200 articles and chapters on family violence. After first serving as interim dean in 2001, Dr. Gelles was appointed dean of SP2 in 2003, leading to a 13-year tenure that included implementing the School's innovative Master of Science in Nonprofit Leadership (NPL) program, followed by the Master of Science in Social Policy (MSSP) and Doctorate in Clinical Social Work (DSW) programs.

Srinivas Mandyam: Churchill Scholarship

Penn senior **Srinivas Mandyam** of Basking Ridge, New Jersey, has been awarded a Churchill Scholarship for one year of graduate research study at the University of Cambridge in England.

The scholarship, which is offered annually to 15 people, is considered one of the most prestigious and competitive international fellowships available to American students planning graduate study in the United Kingdom. Churchill Scholars are chosen from select universities nationwide in the disciplines of science, mathematics and engineering. The scholarship covers tuition and travel expenses, provides a stipend and offers a chance at a research grant.



Srinivas Mandyam

Mr. Mandyam will graduate from Penn in May with a BA in physics, mathematics and biophysics, along with a master's in physics from the School of Arts and Sciences. At Cambridge, he plans to pursue an MPhil in physics. Upon returning to the US, he hopes to pursue a PhD in physics with the goal of becoming a professor of physics at a research university.

A Penn Vagelos Molecular Life Sciences (MLS) Scholar, Mr. Mandyam's current research is supported by the Vagelos Challenge Award. He has been working in A.T. Charlie Johnson's experimental physics lab since 2017, synthesizing and studying two-dimensional materials. He is also supported by a College Alumni Society research grant to study public speaking anxiety remediation in young students and has received NASA's Pennsylvania Space Grant Consortium scholarship. As a junior, Mr. Mandyam was named a Goldwater Scholar and elected to Phi Beta Kappa.

Mariel Mussack: Skadden Fellow

University of Pennsylvania Carey Law School's third-year student **Mariel Mussack** is one of 28 Skadden Fellows who will devote the next two years of their careers to working in the public interest.

Since 1988, the Skadden Foundation has funded public interest fellowships of 877 graduating law students and clerks. The program provides two-year fellowships "to talented young lawyers to pursue the practice of public interest law on a full-time basis" with the goal "to improve legal services for the poor and encourage economic independence."

In the Skadden Fellowship Foundation's 32-year history, 29 Penn Law students have been named fellows.

As the daughter of immigrant parents, Ms. Mussack was inspired to apply for the fellowship by her desire to help immigrant communities thrive in this country, especially in the workplace. Ms. Mussack has had previous clinic experiences at the Law School and internship opportunities at Community Legal Services and Justice at Work.

Ms. Mussack earned a bachelor's degree in comparative literature and international studies at The University of North Carolina, Chapel Hill. She will serve her fellowship at Philadelphia's Justice at Work, formerly known as Friends of Farmworkers, which provides free legal aid, community education and advocacy for workers.

Cory Simpson: Patient Care Hero

The American Academy of Dermatology recently named **Cory Simpson**, physician and clinical instructor in the Perelman School of Medicine, a Patient Care Hero for his work providing free dermatologic care to uninsured Philadelphia patients.

Dr. Simpson and his colleagues at Penn Dermatology use teledermatology—technology that can facilitate the remote diagnosis and treatment of skin conditions—to help patients at the Puentes de Salud (Bridges of Health) community health clinic. The mobile phone-based platform allows dermatologists to view photos of skin, hair or nail conditions sent electronically by primary care physicians and other providers and give treatment recommendations and

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arrange follow-up care if needed. The Penn team of volunteer dermatologists also holds in-person appointments with patients with more complex diseases or who do not see improvement despite initial recommendations.

All of the clinic's patients lack insurance and most are immigrants who face cultural, language and financial barriers to accessing health care. Clinic visits and tele dermatology consultations with dermatologists are provided regardless of patients' ability to pay.

Julia Ticona: Facebook Grant

Julia Ticona, assistant professor of communication at the Annenberg School for Communication, received a Facebook grant for her research project "Online Occupational Communities: Exploring Grassroots Economic Support for Workers in the Digital Age." Dr. Ticona's research investigates the ways that digital communication technologies shape the meaning and dignity of precarious work. She uses qualitative methods to examine the role of mobile phones, algorithmic labor platforms and data-intensive management systems in the construction of identity and inequality for low-wage workers.



Julia Ticona

Melissa Skolnick-Noguera: Transformation Award

Melissa Skolnick-Noguera, a doctoral student at Penn's Annenberg School for Communication, received a Transformation Award, which includes a \$15,000 grant from the Leeway Foundation in recognition of her commitment to art for social change. She was among 10 individual artists and cultural producers in Greater Philadelphia who received a grant.

This year's cohort includes artists continuing five generations of healing and folklore arts, burgeoning millennials who have used their work and representation on a global level and a poet laureate.

Penn Med: FutureEdge 50 Award

Penn Medicine was named a FutureEdge 50 Award winner for the Penn Medicine EHR Chart Review Precision Medicine Tab implementation. Presented by *CIO* magazine and the CIO Executive Council, FutureEdge 50 Awards recognize organizations pushing the edge with new technologies to advance their businesses for the future. The successor to the Digital Edge 50 Awards, the FutureEdge 50 brings to light the most cutting-edge trials and applications of emerging technologies—and the innovative cultures enabling them. The EHR Chart Review Precision Medicine Tab supports Penn Medicine's continuing initiatives to advance in precision medicine and genetic research. Penn Center for Precision Medicine group sought to leverage electronic health record (EHR) to include a comprehensive genetic component—advancing

Penn Medicine's mission around enabling clinicians to better detect disease faster and get needed care with a more tailored treatment plan before a person's condition becomes more difficult to treat. The project allows researchers and clinicians to work within the integrated EHR that files and segregates precision medicine orders, results and reporting within a patient's chart.

Penn Nursing: #1 in NIH Funding

The University of Pennsylvania School of Nursing has retained its top spot among other schools of nursing for research funding from the National Institutes of Health for the 2019 fiscal year with \$11.3 million in awards.

Examples of newly funded research include:

- Improving Self-Care of Informal Caregivers of Adults with Heart Failure
- Palliative Care Consultations for Persons in the Medicare Skilled Nursing Facility Setting
- Novel Neuroendocrine Mechanisms Underlying Nicotine Seeking and Withdrawal-Induced Hyperphagia
- Effect of Opioid Taper on Pain Responses in Patients with Chronic Pain
- Multicomponent Behavioral Sleep Intervention for Insomnia in Older Adults with Mild Cognitive Impairment
- The Role of Opioid Adherence Profiles in Cancer Pain Self-Management and Outcomes
- Utilizing Twitter to Identify and Recruit Young Black Men at High Risk of HIV Infection

ABCS Course Development Grants: April 13

The Barbara and Edward Netter Center for Community Partnerships announces course development grants to promote Academically Based Community Service (ABCS) courses that integrate research, teaching, learning and service. Over 150 courses from a wide range of disciplines and Penn schools have linked Penn undergraduate and graduate students to work in the community. The grants support University faculty to develop new courses or adapt existing courses that combine research with school and community projects.

To see a list of the ABCS courses, visit <https://www.nettercenter.upenn.edu/what-we-do/courses>

Grants will be for no more than \$10,000 over two years per project. These funds can be used to provide graduate and undergraduate support, course support and/or summer salary (\$10,000 is inclusive of employee benefits if taken as summer salary).

Funded by the Netter Center, course development grants are designed to assist faculty with developing new and substantially restructured undergraduate and graduate level courses that engage students in real-world problem-solving projects in partnership with schools and community organizations located in West Philadelphia.

The Netter Center will support the course beyond the duration of the grant by providing undergraduate work-study teaching assistants, transportation and ongoing facilitation of community partnerships.

The following criteria will be used to evaluate proposals:

1. Academic excellence
2. Integration of research, teaching and service
3. Partnership with schools, community groups, service agencies, etc.
4. Focus on Philadelphia, especially West Philadelphia
5. Evidence as to how the course activity will involve participation or interaction with the community as well as contribute to improving the community
6. Evidence as to how the course activity will engage undergraduate and/or graduate students in real-world problem-solving research opportunities
7. Potential for sustainability

Please format proposals as follows:

1. Cover page
 - 1.1 Name, title, department, school, mailing address
 - 1.2 Title of the proposal
 - 1.3 Total amount of funding you would like
 - 1.4 100-word abstract of the proposal (include a description of how the course will involve interaction with the community and benefit the community)
2. A one-page biographical sketch of applicant
3. A two-to-four-page mini-proposal
4. Budget detailing how you intend to use the requested funding

Proposals for fall 2020 and spring 2021 courses should be submitted to the Netter Center for Community Partnerships by April 13, 2020.

Please contact Faustine Sun, ABCS coordinator, at abcscoordinator@sas.upenn.edu for more information or to submit proposals.

—Dennis DeTurck, Robert A. Fox Leadership Professor; Professor and Undergraduate Chair of Mathematics, SAS; Netter Center Faculty Advisory Board Co-Chair; Provost's Senior Faculty Fellow at the Netter Center

—John Gearhart, James W. Effron University Professor and Emeritus Director, Institute for Regenerative Medicine; Professor of Cell and Developmental Biology and Biomedical Sciences, PSOM and School of Veterinary Medicine; Netter Center Faculty Advisory Board Co-Chair

—John Jackson Jr., Walter H. Annenberg Dean of the Annenberg School for Communication; Richard Perry University Professor; Netter Center Faculty Advisory Board Co-Chair

—Terri H. Lipman, Assistant Dean for Community Engagement; Miriam Stirl Endowed Term Professor of Nutrition; Professor of Nursing of Children, School of Nursing; Netter Center Faculty Advisory Board Co-Chair

—Loretta Flanagan-Cato, Associate Professor of Psychology, SAS; Co-Director, Biological Basis of Behavior Program; Provost's Faculty Fellow at the Netter Center

—Ira Harkavy, Associate Vice President; Founding Director, Barbara and Edward Netter Center for Community Partnerships

Human Resources: Upcoming March 2020 Programs

Professional & Personal Development Programs

Open to faculty and staff. Register at <http://knowledgeink.upenn.edu/>

Dealing with Difficult People; 3/2; 12:30-1:30 p.m. We all work with a variety of personalities in the workplace. Coworkers or clients who are difficult or impossible to work with can affect your job and productivity. Effectively coping with difficult people is an invaluable skill. This workshop addresses how focusing on the issue, not on the anger or strong emotions conveyed by others, can lead to a more productive work environment. Clear and open communication, as well as customer satisfaction, can be increased through active listening and being more assertive in difficult situations.

Assertiveness Skills; 3/4; 12:30-1:30 p.m. You may experience situations when you need to utilize assertiveness to complete a task, goal or project. In this class, we will identify personal blocks to assertiveness, identify both assertive and non-assertive language and behaviors and learn ways to use assertiveness in everyday situations.

Navigating Difficult Conversations; 3/5; 9 a.m.-noon; \$75. Difficult conversations are inevitable in any workplace. Those conversations can create unhappiness, stress and tension. While you can't avoid these conversations, you can learn how to handle them more effectively. Developing the ability to handle these challenges will offer increased confidence, improved relationships, higher productivity and better career opportunities.

Participating in Performance Appraisals for Staff; 3/10; 12:30-1:30 p.m. Join this workshop to understand the performance appraisal process and learn how you can prepare to have a productive review session.

Project Management; 3/17; 12:30-1:30 p.m. Not everyone who has to manage a project knows how to do it well. This brief session will provide solutions for project leaders to better manage your team and meet your objectives and timeline.

Conducting Performance Appraisals for Supervisors; 3/23; 12:30-1:30 p.m. You are supervising or managing other employees and feel the need to learn more about how to prepare for and conduct performance appraisals. This is the course you've been looking for! Join us to find out best practices for this important annual procedure.

TED Talk Tuesday: Confessions of a Recovering Micromanager; 3/24; 12:30-1:30 p.m. Think about the most tired you've ever been at work. It probably wasn't when you stayed late or came home from a road trip—chances are it was when you had someone looking over your shoulder, watching your each and every move. "If we know that micromanagement isn't really effective, why do we do it?" asks entrepreneur Chieh Huang. In a funny talk packed with wisdom and humility, Mr. Huang shares the cure for micromanagement madness—and how to foster innovation and happiness at work.

Work-life Workshops

Open to faculty and staff. Register at www.hr.upenn.edu/registration

New and Expectant Parent Briefing; 3/9; 12:30-1:30 p.m. This is an introductory resource briefing designed for expectant parents and those who are new to parenting or child care. Participants will learn about local and Univer-

sity child-care and parenting resources, including breastfeeding support and the nursing mothers program, child-care locators, back-up care, adjusting to new schedules and flexible work options, among other topics. This session will also cover Penn's time away policies, including short-term disability (STD), parental leave and related sick leave policies.

Guided Mindful Meditation; 3/10, 3/31; 12:30-1:30 p.m. This workshop is offered twice a month for participants to practice present moment awareness with kindness and compassion. The guided meditation will focus on the breath and being in the body. Self-applied massage and gentle mindful movements that promote rest and relaxation and reduce stress may also be included in the workshop. No experience necessary. All are warmly welcome.

Lactation Resource Group: Integrating Lactation and Work; 3/17; noon-1 p.m. This interactive conversation, led by Diane Spatz, professor of perinatal nursing and Helen M. Shearer Term Professor of Nutrition, nurse researcher, director of the Lactation Program and director of Mothers' Milk Bank at The Children's Hospital of Philadelphia, will provide an opportunity for expecting, new and experienced parents on campus, to get help with lactation challenges, ensure a smooth transition back to work and academics and share helpful tips with one another. If you are breastfeeding, chestfeeding, pumping and bottle-feeding, pregnant and thinking about breastfeeding, formula-feeding and curious about breastfeeding, this brown bag conversation is for you. This event is open to UPHS and University faculty, staff, students, post docs and their partners. Please feel free to bring your lunch.

Resiliency: Secrets of Successful Employees; 3/16; 12:30-1:30 p.m. Studies have found that when the same events happen to different people, the individual's response makes a big difference in terms of staying healthy. This seminar explores this dynamic and what we can learn from those who are successful at surviving whatever life throws their way and developing their resiliency. The good news is resiliency can be learned, and many examples exist where it has made all the difference. Participants will leave with tips and techniques for maximizing their own resiliency and positively influencing those around them.

Webinar: Working Through Stressful and Changing Times; 3/19; 12:30-1:30 p.m. Change is all around us, and without it we would be stagnant as individuals and organizations. We all respond differently to what we call "change," so how can we make it work for us? This workshop examines what change means for employees and organizations, and how can they get on the same page when discussing and understanding its attributes, benefits and pitfalls. For most people, adjusting their perception and viewpoint can help them adapt more successfully to changing roles and environments.

Introduction to Mindfulness Presentation; 3/30; 12:30-1:30 p.m. This one-hour presentation will provide an introduction to the practice of mindfulness and how it can be utilized as a tool to manage stress in personal and professional settings. Attendance at one of the one-hour introductory presentation sessions is recommended prior to registration for the eight-week *Mindfulness in the Workplace* program, which begins in May.

Penn Healthy You Workshops

Open to faculty and staff. Register at www.hr.upenn.edu/registration

Gentle Yoga; 3/5; 11 a.m.-noon. Let your body reward itself with movement! Join us for this Gentle Yoga session and explore the natural movements of the spine with slow and fluid moving bends and soft twists. During this session, you will flow into modified sun salutations that loosen those tightened muscles and joints of the lower back, neck, shoulders and wrists. And as an added bonus, you'll get a workout in the process. Mats and props will be provided.

Chair Yoga; 3/11; noon-1 p.m. Interested in trying yoga but don't know where to start? Join us for a wonderful class of chair yoga. You get the same benefits of a regular yoga workout (like increased strength, flexibility and balance) but don't have to master complex poses. Chair yoga can even better your breathing and teach you how to relax your mind and improve your wellbeing.

Be in the Know Biometric Screenings; 3/16, 3/17, 3/19; 9 a.m.-1 p.m. free for benefits-eligible Penn faculty and staff. Join this year's *Be in the Know* faculty and staff wellness campaign and sign up for a free and confidential biometric screening, which measures your blood pressure, blood sugar (glucose) and non-fasting total and high-density lipoproteins (HDL) cholesterol. You may also choose to fast to include low-density cholesterol (LDL) and triglyceride results. Get started today and earn up to \$300 this *Be in the Know* campaign year!

Investing 201 Financial Wellness Workshop; 3/26; noon-1 p.m. Join our speaker, Albert Corrado, Jr., certified financial planner professional from Creative Financial Group, MassMutual, for this financial wellness learning opportunity, sponsored by MetLife. This workshop is best for those who have attended our Investing 101 workshop or have general investment knowledge. It will include in-depth information on investing, tax implications, performance measurement, managing risk, determining the right investments and common investing terminology.

March Indoor Wellness Walk; 3/27; noon-1 p.m. March is National Nutrition Month. Meet the Center for Public Health Initiatives staff and walk one- or two-mile route while chatting about nutrition and how you can develop a mindful eating pattern that includes nutritious and flavorful foods. Bring your water bottle and don't forget your sneakers!

—Division of Human Resources

Summer Camps 2020 Recap and Upcoming Penn Rec Camp Open House

In addition to the many 2020 summer programs and camps listed in the January 28 *Almanac* supplement and the Kelly Writers House camp noted in the February 11 issue, there will be an open house for the Campus Rec Summer Camp held March 6, 11 a.m.-2 p.m. for Penn-affiliated groups and March 7, 11 a.m.-2 p.m. for community members (see *Almanac* February 4, 2020, for camp details). Both events will be held in the Pottruck Recreation Center Atrium.

Taking Charge of Heart Health During American Heart Month

February is American Heart Month, and Penn is providing staff and faculty with wellness opportunities to raise awareness about preventing heart disease and to offer guidance for healthier eating.



Preventative screenings are a good first step to healthier living. No-cost heart health preventative screenings are available at local MinuteClinic locations inside CVS pharmacies on *February 20*. The screenings will provide five key personal health numbers that can help determine the risk for heart disease: total cholesterol, HDL (good) cholesterol, blood pressure, blood sugar and body mass index.

To receive a free screening, visit cvshealth.com/gored to download and print a voucher then bring to a MinuteClinic registration kiosk. You can also use your mobile device to show the voucher to the provider after you register.

After your screening, learn how your heart health is impacted by what you eat by attending Penn's *Eating for Heart Health* workshop. The free workshop will be held on *February 24* noon-1 p.m. in the Ben Franklin Room, Houston Hall. To sign up for this workshop, visit www.hr.upenn.edu/registration

At *Eating for Heart Health*, Family Food registered dietitian Christine Steerman will talk with participants about recommended foods that protect the heart and those foods that can be enjoyed in moderation. Register today for *Eating for Heart Health* and learn about the foods to fuel your heart.

For more information about wellness activities, visit the Wellness & Work-life website, www.hr.upenn.edu/PennHR/wellness-worklife

—Division of Human Resources

Additional Penn Podcasts

In addition to the many Penn-affiliated podcasts listed in the January 14, 2020 issue of *Almanac*, here are two more:

Amplify Nursing is created and hosted by Penn Nursing's Marion Leary, director of innovation, and Angelarosa DiDonato, associate program administrator. It features nurses who are leading the way in nursing science, policy and innovation. Guests defy stereotypes, define practice and disrupt convention. The podcast highlights the breadth and depth of nursing influence on society by amplifying nurses who are pushing boundaries and breaking down barriers to build a new paradigm. Available every other Wednesday. See <https://www.nursing.upenn.edu/research/innovation/amplify-nursing-podcast/>



There is also a podcast associated with *Momentum 2020: The Power of Penn Women*, which will be a three-day conference in October celebrating the power of Penn women. The podcast by the same name features discussions with various Penn women; a new one has been added weekly since last fall and there are now nearly two dozen episodes, with more to be included. See <https://pennmomentum.libsyn.com/>



The University of Pennsylvania Police Department Community Crime Report

About the Crime Report: Below are the Crimes Against Persons or Crimes Against Society from the campus report for **February 3-9, 2020**. Also reported were 18 crimes against property (5 frauds, 5 thefts from buildings, 2 retail thefts, 2 vandalisms, 1 auto theft, 1 bike theft, 1 burglary and 1 other offense) with 4 arrests. Full reports are available at: <https://almanac.upenn.edu/sections/crimes> 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 **February 3-9, 2020**. The University Police actively patrol from Market St to Baltimore Avenue and from the Schuylkill River to 43rd St 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.

02/06/20	1:05 PM	100 S 43rd St	Complainant robbed by unknown male
02/07/20	9:26 AM	4001 Walnut St	Phone threat against employees
02/07/20	11:08 AM	3935 Walnut St	Employee threatened manager with a handgun
02/07/20	10:08 PM	3000 Walnut St	Offender struck victim with his fist
02/08/20	5:35 PM	100 S 40th St	Complainant struck by known offender

18th District

Below are the Crimes Against Persons from the 18th District: 14 incidents (3 assaults, 4 aggravated assaults, 2 domestic assaults, 4 robberies and 1 purse snatch) with 1 arrest were reported for **February 3-9, 2020** by the 18th District covering the Schuylkill River to 49th Street & Market Street to Woodland Avenue.

02/03/20	11:22 AM	1018 S 48th St	Aggravated Assault
02/03/20	7:05 PM	43rd/Locust St	Domestic Assault
02/03/20	8:43 PM	4600 Larchwood Ave	Robbery
02/04/20	8:54 AM	48th/Baltimore Ave	Purse Snatch/Arrest
02/04/20	8:12 PM	4642 Hazel Ave	Domestic Assault
02/06/20	10:29 AM	200S 40th St	Assault
02/06/20	1:49 PM	100 S 43rd St	Robbery
02/07/20	11:09 AM	3835 Walnut St	Aggravated Assault
02/07/20	8:23 PM	44th & Pine Sts	Robbery
02/08/20	12:13 AM	30th & Walnut Sts	Assault
02/08/20	10:29 AM	4628 Walnut St	Assault
02/08/20	2:27 PM	4847 Walnut St	Aggravated Assault
02/08/20	2:47 PM	4537 Spruce St	Aggravated Assault
02/08/20	4:24 PM	241 S 45th St	Robbery

Update

February AT PENN

CONFERENCES

22 *Mindfulness and Higher Education*; keynote speaker: Harold Roth, Brown; 10 a.m.-4 p.m.; Class of 1949 Auditorium, Houston Hall; RSVP: <https://tinyurl.com/MindfulHigherEd> (GSE).

READINGS AND SIGNINGS

Kelly Writers House

All events located in Arts Café.
Info: www.writing.upenn.edu/wh

19 *Contemporary Iranian Fiction in Translation*; 6 p.m.

26 *The Sensible Nonsense Project*; 6 p.m.

SPECIAL EVENTS

25 *Chili Cook Off*; bring a batch of your best chili for a community tasting; 5 p.m.; dining room, Kelly Writers House (KWH).

TALKS

20 *Documentary for Critical Times*; Rosalind Morris, Columbia, and Susan Meiselas, photographer; 6:30 p.m.; Slought; info: https://slought.org/resources/documentary_for_critical_times (Slought).

24 *Hospital Land USA: Sociological Adventures in Medicalization*; Wendy Simonds, Georgia State; 3:30 p.m.; rm. 337, Claudia Cohen Hall (HSS).

AT PENN Deadlines

The February AT PENN calendar is now online. The March AT PENN calendar will be published *February 25*. The deadline for the weekly Update is the Monday prior to the week of the issue's publication.

Almanac

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Networks Improve Understanding Smoking Risks

A new study from researchers at Penn's Annenberg School for Communication found that most people—smokers and non-smokers—were nowhere near accurate in their answers to questions about the health effects of smoking. The study, conducted by doctoral candidate Douglas Guilbeault and Damon Centola, professor of communication, sociology and engineering found a way to help people be more accurate in their assessment of smoking's risks: discussing their ideas with other people. This study, published in *PLOS ONE*, is the first to demonstrate the power of networked collective intelligence for public health.

The information shared in public health campaigns and on tobacco warning labels is accurate: It has been studied and tested to ensure it conveys factual information. And yet people continue to smoke.

The researchers created an online network in which 1,600 participants, both smokers and non-smokers, were asked to answer questions about the health risks associated with smoking. In the first round, all participants answered the questions alone. Then participants in the control group were allowed to change their answers but were still working alone. Their answers did not become any more accurate.

Meanwhile, two networked groups of participants were allowed to view the answers of others and use that information to revise their guesses for the second and third rounds. One group simply saw the answers of anonymous participants, while the other group was able to see whether the guesses were coming from smokers or non-smokers.

The answer to the question of how many people will die in developed countries is a daunting figure: 30 million, according to the World Health Organization (WHO). In both networked groups where participants shared answers, everyone's responses to the question improved dramatically. Just by talking in a social network, participants came away with a much better understanding of their own smoking risks, which is a key indicator of a smoker's intention to quit.

A survey on participant experience showed that when people were in networks where they could see that others were smokers and nonsmokers, they were the most likely to report having improved their opinion about the other group. If they were a smoker, they now thought more favorably of non-smokers, and vice versa.

For more about the study, visit <https://tinyurl.com/ASCsmokingnetwork>

CRISPR-Edited Immune Cells Can Survive and Thrive After Infusion into Cancer Patients

Genetically-edited immune cells can persist, thrive and function months after a cancer patient receives them, according to new data published by researchers from the Perelman School of Medicine and Penn's Abramson Cancer Center. The team showed cells removed from patients and brought back into the lab setting were able to kill cancer months after their original manufacturing and infusion. Further analysis of these cells confirmed they were successfully edited in three specific ways, marking the first-ever sanctioned investigational use of multiple edits to the human genome. This is the first US clinical trial to test the gene editing approach in humans, and the publication of this new data in *Science* follows on an initial report last year.

"Our data from the first three patients enrolled in this clinical trial demonstrate two important things that, to our knowledge, no one has ever shown before. First, we can successfully perform multiple edits with precision during manufacturing, with the resulting cells surviving longer in the human body than any previously published data have shown. Second, thus far, these cells have shown a sustained ability to attack and kill tumors," said Carl June, the Richard W. Vague Professor in Immunotherapy and director of the Center for Cellular Immunotherapies in the Abramson Cancer Center and director of the Parker Institute for Cancer Immunotherapy at the Perelman School of Medicine at the University of Pennsylvania and the study's senior author.

Patients on this trial were treated by Edward A. Stadtmauer, section chief of hematologic malignancies at Penn, who is the co-lead author on the study along with Joseph A. Fraietta, an assistant professor of microbiology at Penn. The co-senior author is Simon F. Lacey, director of the Translational and Correlative Studies Laboratory in the Center for Cellular Immunotherapies.

Researchers say these new data will open the door to later stage studies to investigate and extend this approach to a broader field beyond cancer, several of which are already planned at Penn.

This study was performed in cooperation with researchers from the Stanford University School of Medicine.

For more information, visit <https://tinyurl.com/PSOMcrisprcancer>

Printing Chocolate in the Pennovation Center

Based in the Pennovation Center, Cocoa Press is the fledgling 3D printing operation of Evan Weinstein, a May 2019 graduate and a graduate student in Penn's School of Engineering and Applied Science. As a high school student at Springside Chestnut Hill Academy, Mr. Weinstein brainstormed an innovative approach to the chocolate industry. The last two decades have arguably seen a growth in "bean to bar" small-business chocolate ventures, focused on sourcing and curating high-quality small-batch artisanal bars. But Mr. Weinstein's focus is not so much on the ingredients as it is on the form. He wants to go beyond the bar to allow chocolatiers to create shapes while avoiding expensive molds, which are generally \$500 each.

In the summer after his sophomore year, Mr. Weinstein worked in the 3D printing lab in the evenings, where he worked on his 3D chocolate printer. By the end of the summer, he applied for the World Maker Faire in 2017, where he presented it as his prototype hobby project.

When his senior year began, Mr. Weinstein renamed his project Chocolatier for his senior design project, with five other mechanical engineering students. The Engineering Entrepreneurship Lab course solidified Mr. Weinstein's chocolate venture as a viable business opportunity. He went on to win the Miller Innovation Fellowship at Penn for his project and was accepted into the Pennovation Accelerator program. He is currently finalizing the mechanics of his 3D printers.

The printer itself looks like a popcorn machine. The user creates a file to print through a scan. Each printer comes with syringes to fill with chocolate. He's also experimented with printing butter icing and white chocolate. Each substance requires different temperature and air pressure settings.

While a regular 3D printer creates a design out of plastic based on a scan, Cocoa Press printers create a design made out of chocolate. With the scanning technology, chocolate designs can have new textures regular bars do not—internal structures like air bubbles, and squiggles, like Ruffles and their ridges.

Mr. Weinstein prints his logos out in chocolate to bring to fairs, like the Midwest RepRap Festival (a festival celebrating self-replicating machines), and a 3D food printing conference in the Netherlands in June 2020.

In July of 2019, Mr. Weinstein filed a non-utility patent. The Cocoa Press printer can be sold to food hobbyists and niche markets but is not certified for food retail. Food-safe commercial kitchen certification is incredibly expensive so Mr. Weinstein plans to reach out to local chefs and chocolate purveyors in the future. For now, he hopes to land 50 preorders by fall of 2020.

In addition to his own business cards, some designs Mr. Weinstein has created include pets, a cloth-like vase called Julia Vase #11, and Benchy Boat, the benchmark design for 3D printers. "A lot of chocolate companies are trying to stand out, especially with sourcing and ingredients. I can make a scan of my head, and in one hour have a chocolate head."

For the full story and a video of the printer at work, visit <https://tinyurl.com/SEASchocolateprinter>



Photograph courtesy of Tina Rodia, University Communications