

**ASEE 2017 ERC Annual Conference**  
**Speaker Biographies**

**Elizabeth Adams**

As Assistant Vice President for Research Administration at the University of Virginia, Elizabeth Adams leads the Office of Sponsored Programs at UVA and is responsible for the management of sponsored programs at UVA, including research-intensive schools of medicine, engineering, arts and sciences, and education, among others. Her position includes serving as the institutional official for UVA transactions with a variety of federal and state agencies, foundations, corporations and foreign entities. The variety of entities with which OSP engages, and the variety of agreements that OSP reviews (NIH R01s, to corporate master research agreements, to unfunded visiting scholar agreements with foreign governments), provides her a wide frame of reference for understanding university research in the U.S. Elizabeth additionally communicates to the UVA senior leadership and research community on emerging issues that will impact UVA's sponsored research portfolio. Elizabeth previously worked in leadership positions in research administration at Northwestern University and the University of Chicago. Last, Elizabeth is an elected board member of the University Industry Demonstration Partnership (UIDP; <https://www.uidp.org/>), an organization of 130+ universities and companies in the U.S. focused on developing best practices in collaborative, cross-sector research.



**Karen Bender**

Dr. Karen Bender is Director, Industry Collaborations and Innovation Ecosystems, for the National Science Foundation Engineering Research Center on Power Optimization for Electro-Thermal Systems (POETS). In this role, she is responsible for developing and executing strategies to establish both an innovation ecosystem and industrial partnership program for the POETS Center. She works on behalf of the four primary academic institutions: University of Illinois, Stanford University, Howard University and University of Arkansas.

Previously, Dr. Bender was a Director in the Office of Corporate Relations at the University of Illinois at Urbana-Champaign. She provided leadership for critical campus-wide corporate relationships, managing a portfolio of companies investing over \$160 million at Illinois. She proactively initiated and implemented strategies to expand corporate research, recruiting, economic development, professional education, and philanthropic engagements with campus.

Dr. Bender also spent over 13 years in professional research roles at both the National Soybean Research Laboratory and the Department of Agricultural and Consumer Economics at the University of Illinois at Urbana-Champaign. She served as Principal Investigator on large scale multidisciplinary research projects, and managed research activities involving multidisciplinary faculty, government agency representatives, and industry members. Bender is an author of over 40 publications, including journal articles, book chapters and reports.

She received a Ph.D. in Agricultural Economics, an M.S. in Agricultural Economics and a B.S. in Economics from the University of Illinois at Urbana-Champaign.



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**Jennifer T. Bernhard**

Prof. Jennifer T. Bernhard earned the B.S.E.E. degree from Cornell University in 1988 and the M.S. and Ph.D. degrees in Electrical Engineering from Duke University in 1990 and 1994, respectively. From 1995-1999, Prof. Bernhard was an Assistant Professor in the ECE Department at the University of New Hampshire, where she held the Class of 1994 Professorship. Prof. Bernhard has been a faculty member in the Electromagnetics Laboratory in the Department of Electrical and Computer Engineering at the University of Illinois since 1999. She was named the Donald Biggar Willett Professor in Engineering in 2016. Her research group focuses on the development and analysis of multifunctional reconfigurable antennas and their system-level benefits as well as the development of antenna synthesis and packaging techniques for electrically small, planar, and integrated antennas for wireless sensor and communication systems. She and her students hold five patents in these areas. In addition to the NSF CAREER Award, the IEEE Antennas and Propagation Society H. A. Wheeler Prize Paper Award and other research recognitions, she has been honored with a number of teaching and advising awards. She has authored over 250 publications and has advised over 60 graduate students. She is a Fellow of the IEEE, and in 2008, she served as the President of the IEEE Antennas and Propagation Society. Since 2012, she has also served as the Associate Dean for Research in the College of Engineering at Illinois. She is a member of the IEEE Board of Directors in 2017-2018 as Division IV Director and also sits on the ASEE Engineering Research Council Executive Board.



**Kenneth Brezinsky**

Dr. Brezinsky received his B.S. degree Magna Cum Laude from the City College of New York with Honors in Chemistry. After devoting a few years to teaching science at the secondary school level he returned to the City University of New York to pursue graduate studies where he received his Ph.D. in Physical Chemistry. At the completion of his graduate work, Dr. Brezinsky joined the Chemistry Department of Brookhaven National Laboratory as a Postdoctoral Research Associate.

Subsequently, he went to the Mechanical and Aerospace Engineering Department of Princeton University to join the Fuels Research Laboratory of Professor I. Glassman as a Professional Research Staff member. Dr. Brezinsky was promoted to Research Scientist and then Senior Research Scientist. In 1996, Dr. Brezinsky was appointed Professor of Chemical Engineering at the University of Illinois at Chicago, and in 2003 assumed his current position as Professor of Mechanical Engineering. His research interest is fuels combustion engineering. Dr. Brezinsky has published over two hundred refereed/unrefereed publications and made almost one hundred fifty scientific presentations.

He has regularly taught graduate student level courses in combustion, thermodynamics, propulsion, compressible flow and pollution engineering and undergraduate classes in chemical and mechanical engineering.

In his current position as Associate Dean of Research and Graduate Studies, Prof. Brezinsky organizes, coordinates and discovers research opportunities from government, foundation and industrial sources for UIC engineering faculty as well as providing guidance to the COE departmental graduate education programs.



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### Eric G. Eddings

Dr. Eric G. Eddings is the Associate Dean for Research in the College of Engineering at the University of Utah, a position he has held since 2011. He has been actively engaged with the ASEE Engineering Research Council (ERC) since that time, and has been a member of the ERC Board since 2016. He is also a Professor in the Department of Chemical Engineering, where he has been employed since 1998. Prior to joining the University of Utah, Eric spent six years with Reaction Engineering International, a consulting/R&D firm, serving as Senior Engineer, Manager, and then as a Vice President. Prior to graduate school, Eric spent five years with Sperry-Univac (later became Unisys Corp). He is also a partner in a small start-up company (Amaron Energy) that is commercializing a technology for converting various types of biomass and waste materials into biochar/torrefied wood, and a bio-derived crude oil.



He was a recipient of the Kirkpatrick Chemical Engineering Honor Award in 2005, along with other participants of a university-industry partnership, for the development a NO<sub>x</sub>-control technology from bench-scale to successful industrial-scale implementation. He is also the recipient of numerous teaching awards, including the Outstanding Teaching Award from the College of Engineering in 2007. He was awarded an honorary degree, *Doctor Honoris Causa*, from the University of Miskolc in Hungary in 2010. He received B.S. and Ph.D. degrees in Chemical Engineering from the University of Utah.

### Lawrence A. Hornak

Lawrence A. Hornak, Ph.D. is Professor, Distinguished Faculty Scholar and Associate Dean for Research in the College of Engineering at the University of Georgia (UGA). With experience in academia, government and industry sectors, he has a diverse background in multi-institutional interdisciplinary research and education programs built through partnerships. Dr. Hornak received his B.S. in Physics from Binghamton University (SUNY) in 1982 after which he joined AT&T Bell Laboratories, Holmdel, NJ where he completed his M.E. at Stevens Institute of Technology, and his Ph.D. in Electrical Engineering at Rutgers University in 1991. As a Member of Technical Staff at Bell Labs, his research spanned robotic sensors, vision and assembly systems; high-T<sub>c</sub> superconducting interconnections; wafer-scale systems and optical interconnection materials, design and co-integration. Joining West Virginia University (WVU) in 1991, Hornak was a Byrd Distinguished Professor in the Lane Department of Computer Science and Electrical Engineering and served in various leadership roles, including founding co-chair of the department and founding director of the Center for Identification Technology Research (CITeR), the National Science Foundation's only center focusing on biometric identification. He is a founding partner of NexID Biometrics, LLC, a start-up company spun out from CITeR in 2006 and recently acquired by Precise Biometrics. In addition, Hornak was founding co-director for the state's first Nanoscience, Engineering and Education Initiative focusing on sensing and molecular biometrics. During his four-year rotation at the NSF completed just prior to joining the University of Georgia, Hornak served as program director for the Industry/University Cooperative Research Centers Program, leading the program for the last year of his rotation with an emphasis on building trusted industry-academic relationships through shared pre-competitive research. Work since joining UGA has emphasized working with faculty to build interdisciplinary clusters of research strength and institutes grounded in strong partnerships.



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Dr. Hornak's research has spanned integrated photonic biomolecular sensors, photonic devices, and multispectral biometric sensors and systems resulting in over 150 refereed publications. He is a senior member of the IEEE and a member of ASEE, SPIE, and OSA as well as Sigma Pi Sigma and Eta Kappa Nu.

**Matt Hourihan**

Hourihan is the director of the R&D Budget and Policy Program for the American Association for the Advancement of Science (AAAS), where he is a regular source of information and analyses on past, present, and future science budgets for policymakers and the science community. He has served in this position since 2011.

Prior to joining AAAS, he served as a clean energy policy analyst at the Information Technology & Innovation Foundation (ITIF). While at ITIF, he tracked federal energy R&D investments and innovation activities, and authored several white papers and policy briefs exploring the role of innovation in solving the nation's energy and climate challenges. He also regularly coordinated Congressional briefings, conferences, and events bringing together leading experts in government, industry, and academia. Previously, he served as Jan Schori Fellow at the Business Council for Sustainable Energy, a coalition of energy firms and utilities working to engage policymakers for market-based solutions to sustainable energy development and climate change.

As a student, he interned with the AAAS Center for Science, Technology and Congress, now the Office of Government Relations. He earned a masters degree in public policy with a focus on science and technology policy at George Mason University, and a B.A. in journalism from Ithaca College. He has also served as a cause communications professional and journalist in a variety of roles.



**Rosemarie Hunziker**

Rosemarie Hunziker, Ph.D. is the Director of Tissue Engineering/ Regenerative Medicine and ImmunoEngineering Programs at the National Institute of Biomedical Imaging and Bioengineering (NIBIB) within the National Institutes of Health (NIH) in the US Department of Health and Human Services (DHHS). In that capacity she has programmatic oversight of discovery and applied research grants. Dr. Hunziker brings a diverse background to this broad sphere of R&D. She has education, training and experience in microbiology, immunogenetics and immunochemistry, developmental biology, animal husbandry, molecular biology, tissue engineering/regenerative medicine and stem cells (with emphasis on the emerging area of "tissue chips"), biomaterials, and technology transfer. She is committed to nurturing discovery and realizing the practical benefits of the exciting developments at the forefront of cell-based tools and therapies.





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**Gretchen L. Kiser**

Dr. Gretchen Kiser is the Executive Director of the Research Development Office (RDO) at the University of California San Francisco. In this role, Dr. Kiser supports institutional research goals and strategic research initiatives broadly, leading a professional team that: employs innovative team science methods toward fostering development of collaborative, multi-disciplinary research teams; facilitates development of large, complex multi-investigator research proposals; and that manages an intramural funding consortium as well as a limited submissions program.



Dr. Kiser has a diverse research background in genetics, genomics, and molecular biology, including several years in the biotech industry focused on genotyping and gene expression product development. While in industry, she also acquired expertise in Lean Six Sigma, a statistical measurement-based business management strategy. She combines her hands-on research experience with research and faculty development, team science, teaching, and technical writing experience.

As the elected President of the National Organization of Research Development Professionals (NORDP), she is recognized as a leader in research development, an emerging field that sits at the nexus of research administration and research, and encompasses the strategic development of new knowledge and knowledge mobilization. Team science is an essential element of research development and Dr. Kiser has developed and implemented a diverse set of methods and formats for team science, team-building, and conflict resolution all toward fostering innovative approaches and novel partnerships, facilitating greater team /program productivity, as well as increasing institutional competitiveness and capabilities in research funding. She has broad experience working in partnership with individual faculty members, teams of researchers, external cross-sector stakeholders and various institutional administrators to nurture the research programs and the institutional research enterprise generally.

Dr. Kiser received her B.Sc. in Biology at UCLA, where her passion for academic research was sparked, and her Ph.D. in Molecular and Cellular Biology (Genetics minor), studying cell cycle regulation in the yeast genetics lab of Dr. Ted Weinert at the University of Arizona. She then went on to a post-doctoral fellowship at the Mayo Clinic in the protein structure/function lab of Dr. John Riordan.

**Jim Kurose**

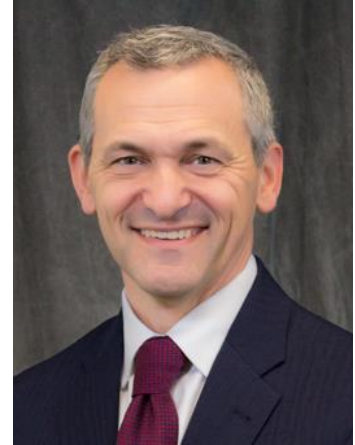
Dr. Jim Kurose is an Assistant Director of the National Science Foundation (NSF), where he leads the Directorate for Computer and Information Science and Engineering (CISE). With an annual budget of more than \$900 million, CISE's mission is to uphold the nation's leadership in scientific discovery and engineering innovation through its support of fundamental research in computer and information science and engineering and transformative advances in cyberinfrastructure. Dr. Kurose is on leave from the University of Massachusetts, Amherst, where he is a Distinguished Professor in the College of Information and Computer Sciences. Dr. Kurose received his Ph.D. in computer science from Columbia University and a BA degree in physics from Wesleyan University. He is a Fellow of the Association for Computing Machinery (ACM) and the Institute of Electrical and Electronic Engineers (IEEE).



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**Keith Marmer**

Keith Marmer, D.P.T., M.B.A. serves as Executive Director and Associate Vice President for Technology & Venture Commercialization at University of Utah. Previously, Keith was co-founder of SG3 Ventures; a venture capital fund focused on early stage investments. Prior to SG3 Ventures, Keith was Chief Business Officer at Penn Center for Innovation, University of Pennsylvania. Before his university-based commercialization roles, Keith was an entrepreneur; launching and scaling two companies and co-founding a consulting firm that advised early stage growth companies. Keith serves on a number of boards as well as a past Entrepreneur-in-Residence at Princeton University. Keith received an MBA, Doctor of Physical Therapy, Master of Physical Therapy and Bachelor of Science in Health Sciences from University of the Sciences.



**Tom McCreery**

Mr. Tom McCreery is the Vice President of Innovation for Zeteo Tech LLC Prior to joining Zeteo Tech Mr. McCreery was the innovation technology lead for the Advanced Missile Systems product line of Raytheon Missile Systems. Mr. McCreery was responsible for creating and leading technology programs ranging from novel structural materials to the use of directed energy to enhance the destruction of anthrax spores. Mr. McCreery served as a program manager in the Special Projects Office and Strategic Technology Office of the Defense Advanced Research Projects Agency from 2002 to 2007 and created and managed programs in the areas of Radiation Decontamination and Detection, Biological Sensors, Battlefield Medicine, and Advanced Warheads. Mr. McCreery was awarded a DARPA program award for the HISSS program and the Office of Secretary of Defense Medal for Exceptional Public Service. Prior to his time at DARPA Mr. McCreery was the lead biologist for ImaRx Pharmaceutical Corp in Tucson Arizona where he was involved in pharmaceutical development from benchtop formulation to human trials. Mr. McCreery holds a Bachelor of Science in Ecology and Evolutionary Biology from the University of Arizona, a Master of Science degree in Biology from the University of North Dakota and a Masters of Business Administration from the Eller School at the University of Arizona. Mr. McCreery served as an M1 Abrams tank crewman in the US Army Reserve and was awarded the Army Achievement Medal with one oak leaf cluster. Mr. McCreery is the author of over 30 publications and is an inventor on 13 issued US Patents. Mr. McCreery currently serves as the president of the DARPA Alumni Association.



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**Raffaella Montelli**

Dr. Raffaella Montelli joined the National Science Foundation (NSF) in January 2012 as a Program Director for the Geophysics Program in the Division of Earth Science, Directorate for the Geosciences (GEO). Since joining NSF, Raffaella led innovation activities at GEO Directorate level working collaboratively across Directorates with Engineering and Computer & Information Science & Engineering. She developed the GEO Directorate partnership in the Industry/University Cooperative Research Center (I/UCRC) Program, that she managed in addition to the Innovation Corps (I-Corps) Program, and the Grant Opportunity for Academic Liaison with Industry (GOALI) program. In June 2014, she took the reins of the Industry/University Cooperative Research (I/UCRC) Program in the Directorate for Engineering and modernized the Program enhancing its funding model and structure. She has recently taken a position in the Office of Director/Office of Integrated Activities in the Experimental Program to Stimulate Competitive Research (EPSCoR). Prior to coming to NSF, Raffaella was a Senior Geophysicist at ExxonMobil Exploration Company. Raffaella holds a Master in Physics from the University of Bologna in Italy, a PhD in Geophysics from Princeton University, and a Doctorat en Sciences de l'Univers from the University of Nice-Sophia Antipolis in France. Raffaella has authored peer-reviewed papers that have influenced the course of seismology and have received media recognition. She is the recipient of several awards for her technical achievements and leadership.



**Randolph L. (Randy) Moses**

Randolph L. Moses received the B.S., M.S., and Ph.D. degrees in Electrical Engineering from Virginia Tech 1979, 1980, and 1984, respectively. Since 1985 he has been on the faculty at The Ohio State University, and holds appointments as Associate Dean for Research in the College of Engineering and Professor in Electrical and Computer Engineering.

Professor Moses has also been a visiting researcher with the Air Force Research Laboratory (1983; 2002-03), Eindhoven University of Technology in The Netherlands (1984), Uppsala University in Sweden (1994-95), and Massachusetts Institute of Technology (2003).

Professor Moses serves on the ASEE Engineering Research Council and was chair 2014-2016, and on the IEEE Sensors Council, and the IEEE Signal Processing Society Sensor Array and Multichannel Technical Committee. He serves on the Board of Directors for the Edison Materials Technology Center (EMTEC) and the Dayton Area Graduate Studies Institute (DAGSI). He is a past associated editor of *IEEE Transactions on Image Processing* (2008-09) and of *IEEE Transactions on Signal Processing* (2000-04). He was the founding chairman of the Columbus Ohio Section of the IEEE Signal Processing Society.



Professor Moses' research interests are in statistical signal processing, and include parametric time series analysis, radar signal processing, sensor array processing, and sensor networks. He has published more than 150 technical papers and co-authored two textbooks. He is a Fellow of the IEEE.

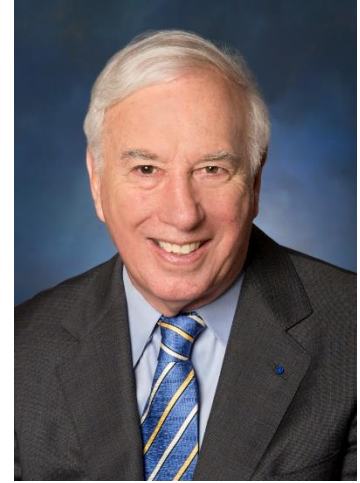
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**C. Daniel Mote**

C. D. Mote, Jr. is President of the National Academy of Engineering and Regents Professor, on leave, from the University of Maryland, College Park.

Dr. Mote is a native Californian who earned his BS, MS, and PhD degrees at the University of California, Berkeley in mechanical engineering between 1959 and 1963. After a postdoctoral year in England and three years as an assistant professor at the Carnegie Institute of Technology in Pittsburgh, he returned to Berkeley to join the faculty in mechanical engineering for the next 31 years.

At Berkeley, he held an endowed chair in mechanical systems and served as chair of the mechanical engineering department from 1987 to 1991. Because of his success at raising funds for mechanical engineering, in 1991 he was appointed vice chancellor at Berkeley expressly to create and lead a \$1 billion capital campaign for the campus that ultimately reached \$1.4 billion.



In 1998, Dr. Mote was recruited to the presidency of the University of Maryland, College Park, a position he held until 2010 when he was appointed Regents Professor. During his tenure the number of Academy members among the faculty tripled, three Nobel laureates were recognized, and an accredited school of public health and a new department of bioengineering were created. He also founded a 130-acre research park next to the campus, faculty research funds increased by 150%, and partnerships with surrounding federal agencies and with international organizations expanded greatly. The Academic Ranking of World Universities ranked the campus #36 in 2010 and its Engineering School #13 globally.

The NAE elected him to membership in 1988, and to the positions of Councillor (2002-2008), Treasurer (2009-2013), and President for six years beginning July 1, 2013. He has served on the NRC Governing Board Executive Committee since 2009. He chaired the NRC Committee on Global Science and Technology Strategies and Their Effects on US National Security (2009-2010), cochaired the National Academies Government-University-Industry Research Roundtable (2007-2013), and cochaired the Committee on Science, Technology, Engineering, and Mathematics Workforce Needs for the US Department of Defense and the US Industrial Base (2011-2012). He was vice chair of the NRC Committee on the Department of Defense Basic Research (2004) and served on the NRC committee authoring the *Rising Above the Gathering Storm* reports of 2005 and 2010. He was also a founding member of the FBI's National Security Higher Education Advisory Board (2005-2010).

Dr. Mote's recognitions include the NAE Founders Award, the American Society of Mechanical Engineers Medal, and the Humboldt Prize of the Federal Republic of Germany. At the University of California, Berkeley, he was honored with the Distinguished Teaching Award, Distinguished Engineering Alumnus Award, Berkeley Citation, and Excellence in Achievement Award. He is an Honorary Fellow of the American Society of Mechanical Engineers, and Fellow of the American Academy of Arts and Sciences, the American Academy of Mechanics, the Acoustical Society of America and the American Association for the Advancement of Science. He holds three honorary doctorates and two honorary professorships.



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**Vahid Motevalli**

Dr. Vahid Motevalli is the Associate Dean for Research and Innovation in the College of Engineering (CoE) and Professor of Mechanical Engineering at Tennessee Technological University (TN Tech). He also serves as the Interim-Director of the Center for Manufacturing Research at TTU. His key responsibilities include; oversight of the graduate program, faculty recruitment and start-up funding, innovation and intellectual property activities, undergraduate research and oversight and direction of all CoE research centers. Under his leadership, the college graduate enrollment has increased by 50% since 2013, external funding by 35% and PhD enrollment has achieved historical high. He obtained all his degrees in Mechanical Engineering from the University of Maryland at College Park. He has served in administrative and faculty positions at WPI, the George Washington University and Purdue University prior to TN Tech.



His experience includes working at NIST as Guest Scientist, staff member of the Committee on Science of the US House of Representative as the ASME/AAAS Congressional Fellow (1995-96) and Senior Fellow of the GW Homeland Security Policy Institute. He continues to be active in ASME, SAE, the National Academies TRB as well as representing TN Tech in a number of ASEE Divisions. He has over 100 technical publications in addition to reports, presentations and invited talks and has directed over 40 graduate students. His research activities have been supported by more than \$15 million in funding thus far in his career.

**Pamela Norris**

Dr. Pamela Norris is Executive Associate Dean of Research in the School of Engineering and Applied Science at the University of Virginia having served a prior term as the Associate Dean of Research and Graduate Studies. She received her BS in Mechanical Engineering and Mechanics from Old Dominion University in 1987 and MS and PhD in Mechanical Engineering from Georgia Institute of Technology in 1989 and 1992, respectively. After completing post-doctoral studies at UC Berkeley with then Chancellor Chang-Lin Tien, she joined the faculty at UVA where she has served since 1994.



Dr. Norris is the Frederick Tracy Morse Professor of Mechanical and Aerospace Engineering, a Fellow of ASME, a member of the scientific council of the International Centre for Heat and Mass Transfer, and serves on the Advisory Board of The American Society of Thermal and Fluids Engineers. She is the author of more than 125 journal articles and 4 book chapters and holds 4 patents. Dr. Norris is well-known for her mentoring skills and for her dedication to increasing the representation and retention of women faculty in the STEM disciplines, serving now as the Director of UVA's NSF ADVANCE Institutional Transformation program.

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**Brian Nosek**

Brian Nosek is co-founder and Executive Director of the Center for Open Science (<http://cos.io>) which operates the Open Science Framework (<http://osf.io/>). COS is enabling open, transparent and reproducible research practices worldwide.

Brian is also a professor in the Department of Psychology at the University of Virginia. He received his Ph.D. from Yale University in 2002. He co-founded Project Implicit (<http://projectimplicit.net/>), an Internet-based multi-university collaboration between research and education investigating implicit cognition--thoughts and feelings that exist outside of our awareness or control.

Nosek investigates the gap between values and practices, such as when behavior is influenced by factors other than one's intentions and goals. Research applications of this interest are implicit bias, decisionmaking, attitudes, ideology, morality, and barriers to change. Nosek applies this scientific research to improve the alignment between personal and organizational values and practices. In 2015, he was named one of Nature's 10 and to the Chronicle for Higher Education Influence List.



**Sohi Rastegar**

Dr. Sohi Rastegar is Senior Advisor and the Head of the Office of Emerging Frontiers and Multidisciplinary Activities (EFMA) at the US National Science Foundation (NSF), Directorate for Engineering. He joined NSF in November 2003 following fifteen years of academic and administrative service at Texas A&M University, Virginia Commonwealth University, and the Johns Hopkins University. He has been an Invited Professor at the Swiss Institute of Technology in Lausanne (EPFL), Switzerland. He earned his B.S. (Highest Honors) and M.S. in Aerospace Engineering, and his Ph.D. in Biomedical Engineering at the University of Texas at Austin. Dr. Rastegar has over 150 scientific publications and presentations and has trained 8 PhD and 14 MS students. He is a co-founder of BioTex, Inc., a medical device company in Houston, Texas. He is a Fellow of the American Institute for Medical and Biological Engineering (AIMBE), a Fellow of the American Society for Lasers in Medicine and Surgery (ASLMS), has served as the Chair of Bioengineering Division of ASME, Associate Editor of Annals of Biomedical Engineering, a member of the Editorial Boards of the Journals of Biomedical Optics and Journal of Diabetes Science and Technology. Dr. Rastegar is the recipient of awards and honors including the Select Young Faculty Award from the Texas Engineering Experiment Station, and the Director's Superior Accomplishment Award from the National Science Foundation.



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**William Shute**

Bill Shute has been Vice Chancellor for Federal Relations with the University of Texas System since September, 2001. The UT System is one of the nation's largest higher education systems with 14 institutions and an annual operating budget of \$16.9 billion (FY 2016). In his role as Vice Chancellor, Shute is responsible for all UT System and campus activities in Washington, D.C. and manages a staff of thirteen System employees.

Shute has spent his professional career working in the federal policy arena and his entire personal life in federal politics. Before joining the UT System, he spent eleven years as Executive Director – Federal Relations for SBC Telecommunications, Inc. He has also worked as Senior Vice President in the government relations firm R. Duffy Wall & Associates, a legislative assistant for a Member of Congress, and a telecom trade association attorney. Shute was Legislative Assistant to former Member of Congress Bob Whittaker and was responsible for several Commerce Committee and Judiciary Committee issues. This extensive knowledge of and professional experience with the federal government led to Shute being selected as the inaugural professor for the UT Austin LBJ School of Public Affairs Washington, DC track.



Shute holds a B.A. with honors from the University of Texas at Austin, a J.D. from the University of Houston, and is a member of the State Bar of Texas. He has been active in various community activities including Little League, Boy Scouts, Cub Scouts (Den Leader), the Colonial Athletic Boosters at Thomas Jefferson High School for Science and Tech, TJHSST's STEM education advocacy program, St. Luke's Rock Against Hunger, the Virginia Science Olympiad program, and is a published author. He is a former partner in Texas Nights, LLP, a Washington, D.C.-based events planning company and volunteered for many years with the Texas State Society of Washington, D.C., where he served on the Board of Directors and as President. He served as the Chairman and event coordinator for the successful 2005 Black Tie and Boots Presidential Inaugural Ball (a \$4 million enterprise which entertained 14,000 guests).

**Julie Speer**

Since 2012, Julie Speer has served as Associate Dean for Research and Informatics at Virginia Tech Libraries, with primary responsibility for connecting library services, resources, and expertise to university research environments. Her portfolio includes programmatic oversight of campus-wide data management and consulting services, open repository and publishing services, and digital library development. Speer currently serves on the steering committee of the International Conference on Open Repositories, the Library Publishing Coalition Board, the program committee of the ACM/IEEE Joint Conference on Digital Libraries, and is active in the American Library Association's College and Research Libraries and Library Leadership and Management associations. Prior to joining Virginia Tech, Speer served from 2007 to 2012 as head of scholarly communication and digital services at Georgia Tech Library.



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**Addison Killean Stark**

Dr. Addison Killean Stark currently serves as an ARPA-E Fellow and Acting Program Director focusing on advanced thermochemical conversion to fuels and chemicals, innovation in the energy-water nexus, and intensification of energy conversion reactor designs. Dr. Stark also serves as program director for the \$32 million Advanced Research in Dry-cooling (ARID) portfolio which consists of 13 projects focusing on the development of advanced technologies to reduce the water consumption of power production.

Dr. Stark completed his Ph.D. in Mechanical Engineering from MIT. For his Ph.D. thesis, Stark elucidated the role of transport phenomena on the thermochemical conversion of biomass in fluidized bed reactors (gasification and pyrolysis). Dr. Stark also holds S.M. degrees in Mechanical Engineering and Technology and Public Policy from MIT. He received a B.S. and a B.A. in Mathematics and Chemistry respectively from the University of Iowa.



**Shay D. Stautz**

Shay D. Stautz is the Associate Vice President for Federal Relations at the University of Arizona. Having arrived at the UA in this position in January 2006, Mr. Stautz is the primary advocate/lobbyist for the University with the Federal government at all levels and all branches. In this role he works with the Arizona Congressional Delegation, and other federal partners to promote the University's research capabilities and protect the institution's interests in federal legislation.

Prior to joining the University, Mr. Stautz was Vice President for Technology Programs at Collins & Company, a niche appropriations lobbying firm in Washington DC. There he specialized in defense, national security, and high technology issues, including with associations.

He also worked previously for the U.S. Chamber of Commerce's Center for International Private Enterprise (CIPE) on legislative and international issues, and with Georgetown University as a non-teaching academic in the Center for Intercultural and Educational Development (CIED), as the Operations Officer for an USAID-funded international student program which also operates at the University of Arizona. He served as a legislative aide on defense issues to former Arizona Congressman Mo Udall (D-AZ) and in the same capacity to Wisconsin Senator (and UA Alum) Robert W. Kasten (R-WI).

Mr. Stautz has a M.A. in National Security Studies and a B.A. in Government/International Relations from Georgetown University. In his personal time, Mr. Stautz is an avid student of international affairs, and founded three professional discussion/study groups – the Intelligence and Security Discussion Group (ISDG), the Congressional Security Study Group (CSSG) and the International Trade Study Group (ITSG). Mr. Stautz also hosted the monthly discussion cable show "*National Security Roundtable*," and also appeared regularly on another cable political talk show. Mr. Stautz is a member of the Davis Monthan 50, and is also on the Boards of the Greater Tucson Leadership, the University of Arizona Academic Leadership Institute, and the Southern Arizona Defense Alliance.





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**Reginald G. Williams**

Reginald Williams is the Office of Naval Research program manager for the Enterprise Research Initiative. As program manager for ERI he oversees the ONR's Young Investigator Program (YIP), Applied Research Challenge (ARC), Basic Research Challenge (BRC), Research Opportunities for Program Officers (ROPO), and Peer Review process.

Previously he held managing and research roles at the Naval Air Warfare Center (NAWC) Propulsion and Power Engineering at Patuxent River, MD.

In private industry, Dr. Williams managed engineering programs and conducted basic and applied research in turbo-machinery for industrial, commercial, and military applications. Dr. Williams received his PhD, MS, and BS in Aerospace Engineering from the University of Maryland at College Park.

