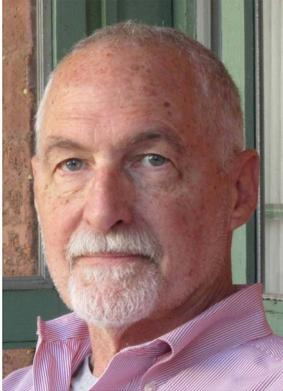




FROM NSF

NSF DAY SPEAKERS August 29, 2018



William Badecker

SBE - Social, Behavioral and Economic Sciences
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Bill Badecker is a linguist with interests in sentence comprehension and production. After completing his Ph.D. in linguistics (Indiana University, 1983) and postdoctoral studies in the cognitive neuropsychology of language (Johns Hopkins University, 1984-1986), he taught and developed his psycholinguistics research program at Hopkins over the next 22 years. His most recent research focuses on the production of grammatical agreement, applying experimental methods and formal linguistic analysis to agreement phenomena in a diverse set of languages. In 2008, he joined the research faculty at the University of Arizona and moved to NSF in 2010, where he serves as program director for the Linguistics Program.



Prakash Balan

ENG – Engineering
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Prakash Balan is a program director that currently manages a spectrum of NSF programs focused on catalyzing industry-university pre-competitive research collaboration to drive technological innovation. He has a Ph.D. in Chemical Engineering from the Pennsylvania State University and over 20 years of leadership experience spanning research and development, technology innovation and custom manufacturing/commercialization in the chemical industry. He co-founded two companies in the wastewater treatment and biofuels industry sectors respectively. He holds 12 U.S. patents and his innovations in energy efficient wastewater treatment are in use at numerous treatment plants nationwide.



France Córdoba

Director, National Science Foundation
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France Córdoba is an astrophysicist and NSF's 14th director. Córdoba is president emerita of Purdue University and chancellor emerita of the University of California, Riverside, where she was a distinguished professor of physics and astronomy. She was the vice chancellor for research and professor of physics at the University of California, Santa Barbara. Previously, she served as NASA's chief scientist, prior to which she was on the faculty of the Pennsylvania State University where she headed the department of astronomy and astrophysics. Córdoba was also deputy group leader in the Earth and Space Sciences Division at Los Alamos National Laboratory. She received her Bachelor of Arts degree from Stanford University and her doctorate in physics from the California Institute of Technology.

FROM NSF



Tomasz Durakiewicz

MPS - Mathematical and Physical Sciences

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Tomasz Durakiewicz received his Ph.D. in Poland in 1998 in the area of experimental physics. After a year as visiting professor at the University of New Mexico, he joined Los Alamos National Laboratory in 2000 as a director's funded postdoc and then converted to staff member in 2003. His research focuses on the electronic structure of f-electron materials, mostly actinides, and structure and properties of topological systems, thermionic emission and work function, and also on applications of stable isotopes. He has co-authored over 150 peer-reviewed publications, over 200 conference abstracts, and six patents, and presented over 50 invited talks. Since July 2014, he has served as a program director for NSF's Condensed Matter Physics program.



Jeremy Epstein

CISE - Computer and Information Science and Engineering

Division of Computer and Network Systems (CNS)

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Jeremy Epstein is deputy division director for the CNS Division and leads a team of 20 program officers. He is also co-chair of the Networking and Information Technology Research and Development (NITRD) program privacy committee, which coordinates privacy research across government agencies. His research interests focus on securing voting systems. Prior to joining NSF, he was a researcher at SRI International. In his copious spare time outside NSF, he is associate editor in chief of *IEEE Security & Privacy* magazine, founder/chair of Applied Computer Security Associates Scholarships for Women Studying Information Security, and vice chair of the Association for Computing Machinery's U.S. Public Policy Council.



Jodie Jawor

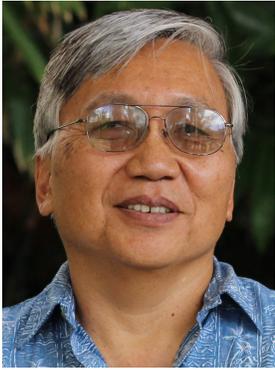
BIO - Biological Sciences

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Jodie Jawor is a program director in the Behavioral Systems Cluster. She is also affiliate research faculty at New Mexico State University. Her research training is in behavioral ecology, behavioral endocrinology, endocrine physiology and avian biology. Her research focuses on the hormone mechanisms that influence behavior and allow animals to adapt to their environment. Jawor's research questions have focused on the hormone influences of parental behavior, aggressive behavior, and the responses of the stress and reproductive hormone axes to seasonal change.

FROM NSF



Anthony Kuh

ENG - Engineering

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Anthony Kuh has been a program director under the Intergovernmental Personnel Act since January 2018. He works in the Energy, Power, Control, and Networks program and worked to develop a “Dear Colleague Letter on Real Time Learning and Decision Making for Engineered Systems.” He has been a professor at the University of Hawaii since 1986. He is currently director of the Renewable Energy and Island Sustainability Center and was previously department chair of the electrical engineering department. His research interests are in signal processing, machine learning, and applications to power and energy systems. He is an IEEE Fellow and was a distinguished Fulbright scholar.



Jeremy Leffler

BFA - Budget, Finance and Award Management

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Jeremy Leffler is the outreach specialist in BFA’s Policy Office. He is primarily responsible for the development and implementation of communications strategies that inform the research community and NSF staff about NSF proposal and award policies and procedures. Leffler is responsible for directing the biannual NSF grants conference, coordinating NSF participation in major professional conferences for research administrators, and leading science and engineering research and education outreach programs in institutions historically underserved in the federal funding arena.



Chungu Lu

GEO - Geosciences

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Chungu Lu has been a program director for NSF’s Physical and Dynamic Meteorology since 2010. Prior to NSF, he worked as a research scientist at NOAA’s Earth System Research Laboratory for 15 years. He obtained a bachelor’s in physics, a master’s in atmospheric sciences and physical oceanography, and a doctorate focused on atmospheric science. His past research has covered cloud physics, cloud electrification/lightning, radar meteorology, precipitation physics, mesoscale convective systems, severe weather systems, atmospheric gravity waves, and turbulence, hurricane dynamics and numerical weather prediction. He was nominated for NOAA’s outstanding publication award and is a recipient of the Wang Kuan-Cheng Fellowship by the Chinese Academy of Science. Today he serves as a professional journal editor.

FROM NSF



Vychaslav "Slava" Lukin

MPS - Mathematical and Physical Sciences

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Vychaslav "Slava" Lukin is a program director and is responsible for programs in plasma physics and accelerator science since he joined NSF in 2014. He received a bachelor's from Swarthmore College and a doctorate in astrophysical sciences from Princeton University. His doctorate work included time at the Los Alamos National Laboratory and was supported by fellowships from NSF and DOE. He completed a postdoctoral fellowship at the University of Washington in 2009, when he joined the Naval Research Laboratory. He is the developer of a scientific code framework with users around the world and applications to modeling of laboratory and space plasmas.



Sonia Ortenga

OISE - Office of International Science and Engineering

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Sonia Ortega currently serves as program director for West Europe, Mexico and Brazil. From 2015 to 2018, she was head of NSF's Europe office in Brussels, Belgium, where she represented NSF at high level meetings, built an extensive network of representatives from European organizations, and facilitated interaction between U.S. and European scientists. Before coming to NSF in 1989, Ortega was a research associate at the Duke University Marine Laboratory in Beaufort, North Carolina. From 2001 to 2004, she worked as director of education and international programs at the Long Term Ecological Research (LTER) Network Office at the University of New Mexico. She represented NSF at Palmer Station, Antarctica, and the U.S. as an embassy science fellow at the U.S. Embassy in Kuala Lumpur, Malaysia. She is a founding member of the Nicaraguan Academy of Sciences. She holds a bachelor's degree in biology from the University of Costa Rica, a master's in zoology from Duke, and a doctorate in biology from the University of South Carolina.



Robert L. Russell

EHR - Education and Human Resources

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Robert Russell has over 30 years of experience in STEM education spanning childrens' museums, science centers, community organizations and media. He currently serves as a program officer, managing proposals concerned with informal, classroom and cyberlearning STEM education. His strengths include his experience in designing and evaluating projects targeting underserved minorities, including Hispanics and African-Americans; designing health education projects; using social marketing approaches in science and health education; and designing media-focused projects including print media, radio, television and large format films. Russell has taught psychology at Cornell and Georgetown universities and holds a doctorate in developmental psychology from Cornell and a bachelor's in psychology, math and German from the University of Nebraska-Lincoln.

FROM NSF



Nora F. Savage

ENG - Engineering

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Nora Savage is a program director who manages the Biological and Environmental Interactions of Nanoscale Materials Program. She is also the Faculty Early Career Development program representative for the Engineering Directorate. She obtained her bachelor's degree in chemical engineering from Prairie View A&M University and two master's degrees and her doctorate from the University of Wisconsin-Madison. She has worked for the U.S. federal government for almost 20 years, serving the environmental nanotechnology research community through her contributions to strategic research directions. Savage served as a team lead for nanotechnology within the Office of Research and Development within the U.S. Environmental Protection Agency.



Tim VanReken

O/D - Office of the Director

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Tim VanReken currently serves as a program director with NSF's Established Program to Stimulate Competitive Research (EPSCoR). He has been with NSF EPSCoR since 2014. Prior to that, he held a faculty position with the Department of Civil and Environmental Engineering at Washington State University and was a postdoctoral fellow at the National Center for Atmospheric Research. He has a bachelor's degree from the University of Florida and a doctorate from the California Institute of Technology, both in chemical engineering.



Lisa-Joy Zgorski

O/D - Office of the Director

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Lisa-Joy Zgorski is a public affairs specialist and NSF Days lead. Since joining NSF in 2007, she has worked on behalf of offices and directorates throughout the foundation and the National Science Board. Her beats have included NSF's international office, SBE, CISE, physics and astronomy. She was a legislative aide for U.S. Rep. Barbara Kennelly (D-CT); press secretary for the U.S. Patent and Trademark Office and (then-candidate) Gov. Dan Malloy of Connecticut; and public affairs specialist in the press offices of U.S. Commerce Secretary Ron Brown, the Office of Management and Budget, and The Century Foundation. Zgorski holds an M.P.P. from Harvard's Kennedy School of Government; an A.B. from Mount Holyoke College; and certificates in policy studies from Dartmouth College and the Charles University Law Faculty in Prague.

PANELISTS, ALREADY NSF-FUNDED PIs



Laura Crossey

Professor, Earth and Planetary Sciences
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Laura Crossey obtained her doctorate in geology from the University of Wyoming and has been at UNM for 34 years. Her research focuses on low-temperature geochemistry, including geologic influences on water quality. She is a fellow of the Geological Society of America. She received the 2015 New Mexico Women in Science Impact Award. She will serve as the 2019 Birdsall Dreiss Distinguished Lecturer for the Hydrogeology Division of the Geological Society of America. Since 2000, she has served as principal investigator (PI) or co-PI on 31 NSF awards totaling over \$12 million.



Thomas A. Manz

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Thomas A. Manz has been an assistant professor in NMSU's Chemical and Materials Engineering Department since 2012. He specializes in catalysis and nanomaterials. His research uses computational chemistry to design new catalysts for greener chemical transformations and to study materials with interesting catalytic, magnetic or chemical applications. For four years, he was a research scientist at the School of Chemical and Biomolecular Engineering at the Georgia Institute of Technology in Atlanta. His postdoc research was part of the Center for Atomic Level Catalyst Design, an Energy Frontier Research Center funded by the U.S. Department of Energy. His first year of research at Georgia Tech was funded by NSF. He earned his doctorate and a master's degree in chemical engineering from Purdue University and his bachelor's in chemical engineering from The University of Toledo.



William Michener

Professor and Director of e-Science Initiatives
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William Michener is a professor in the University of New Mexico's College of University Libraries & Learning Sciences. He is project director for New Mexico's NSF and Department of Energy EPSCoR Programs and for DataONE, a large information technology project supported by NSF and the U.S. Geological Survey (USGS). His research efforts focus on supporting data-intensive science, ecological informatics, and community engagement and workforce development. He has received 51 independently awarded grants totaling \$158 million from research sponsors such as NSF, NOAA, USDA and USGS. He serves on several nonprofit boards and editorial boards and has expertise in project management and meeting facilitation.

PANELISTS, ALREADY NSF-FUNDED PIs



Jennifer Rudgers

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Jennifer Rudgers is a professor of biology at UNM and the newest director of the Sevilleta Long-Term Ecological Research (LTER) program site, funded by NSF's LTER Network and based in central New Mexico. Her research program uses plants, microbes and arthropods to explore how mutualistic interactions affect population dynamics, community structure, evolution and ecosystem processes. Advancing the understanding of the importance of mutualisms in both natural and managed ecosystems can help to make better predictions about the ecological and evolutionary consequences of environmental change.



Lisa M. Young

Professor of Physics and Associate Chair

Dynamics of Spiral and Dwarf Galaxies

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Lisa M. Young earned a bachelor's degree in astronomy and astrophysics at Harvard University, followed by a doctorate in astronomy at the University of Illinois. She has worked as a pre-doctoral fellow at the National Radio Astronomy Observatory in New Mexico and did a postdoc at New Mexico State University. Since then, she has been in the Physics Department at New Mexico Tech. Her research work is mainly observations of galaxy evolution and in support of this work, she has received research funding from NSF and NASA.

University of New Mexico Officials



Gabriel Lopez

Vice President of Research

University of New Mexico

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Gabriel Lopez was appointed as the University of New Mexico's (UNM) vice president for research in 2015, where he is also a professor in the department of chemical & biological engineering (CBE). Previously, López was a professor in the department of biomedical engineering at Duke University's Pratt School of Engineering and an adjunct professor in UNM's CBE. At Duke, he was the founding director of the NSF Research Triangle Materials Research Science and Engineering Center (RT-MRSEC), which is focused on the programmable self-assembly of soft matter and currently includes approximately 60 researchers at Duke, North Carolina State, University of North Carolina-Chapel Hill and NC Central University. Prior to Duke, Lopez was a professor in UNM's Department of Chemical & Biological Engineering and was the founding director of UNM's Center for Biomedical Engineering (of which he is currently a member) and the Biomedical Engineering graduate programs. Lopez's current research interests include bio-interfacial phenomena, biomaterials, self-assembly and bio-analytical microsystems to address problems in medicine, biotechnology and environmental quality.



Garnett S. Stokes

President

University of New Mexico

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Garnett S. Stokes became the University of New Mexico's (UNM) 22nd president on March 1, 2018, and the first female president in UNM's 129 year history. She has a long history of leadership in public higher education. She has served as interim chancellor, provost and executive vice chancellor for academic affairs at the University of Missouri; as provost and executive vice president for academic affairs and interim president at Florida State University; and as a faculty member, psychology department chair and dean of the Franklin College of Arts and Sciences at the University of Georgia (UGA). Stokes has advocated for an aggressive agenda for transforming the student experience and strengthening the ranks of the faculty and the environment that supports them. A first-generation college graduate, Stokes earned a bachelor's in psychology from Carson-Newman College in Tennessee and a master's and doctorate from UGA in industrial/organizational psychology. Her research has focused on personnel selection and promotion, specifically the use of biographical information in job selection and promotion decisions. As a consultant, Stokes has assisted businesses, government agencies and Fortune 500 companies in the development of their hiring procedures. Stokes is a fellow of the Association for Psychological Science, the American Psychological Association, and the Society for Industrial and Organizational Psychology.