



## NSF DAY SPEAKERS

From NSF  
May 3, 2017



**Luciana Astiz**  
GEO-Geosciences  
Division of Earth Sciences (EAR)  
[lastiv@nsf.gov](mailto:lastiv@nsf.gov)

**Luciana Astiz** graduated with a Ph.D. in geophysics from Caltech, following with various postdocs at University of Washington and at Scripps Institution of Oceanography. She then worked for the Comprehensive Nuclear Test Ban Treaty Organization in Vienna, Austria where she built many seismic arrays for the International Monitoring System (IMS). In 2005, she returned to Scripps as a researcher working for the USArray EarthScope project. During that time, she was chief editor of the Seismological Research Letters. She joined NSF in 2015. She is a member of the "FastLane Modernization" committee and the volunteer group of program directors who help in the review process of the GRFP program.



**David Campbell**  
EHR—Education and Human Resources  
Division of Research on Learning (DRL) in Formal and Informal settings  
[dcampbell@nsf.gov](mailto:dcampbell@nsf.gov)

**David Campbell** received his Ph.D. in biological sciences at the University of Rhode Island where he studied the behavioral ecology of marine invertebrates. David was a visiting assistant professor in the zoology department at the University of New Hampshire and taught field marine science courses for the Shoals Marine Laboratory for 20 summers. He taught at Rider University for 15 years, where he served as chair of the biology department, and helped to institute the university's marine biology and environmental science majors. David has been a program director at NSF since 2001. He works with several programs in EHR, as well as various cross-cutting NSF programs.



**Charles Estabrook**  
OISE—Office of International Science and Engineering  
[cestabro@nsf.gov](mailto:cestabro@nsf.gov)

Chuck Eastabrook is a program manager responsible for NSF interaction with Germany, Austria, Brazil and Panama. He also helps manage the International Research Experiences for Students (IRES) and Partnerships for International Research and Education (PIRE) programs. Prior to that, he was in the Earth Sciences Division at NSF where he was a program manager for EarthScope. From 2001 to 2010, he helped build the seismic monitoring network of the Comprehensive Nuclear Test-Ban Treaty Organization in Vienna, Austria. From 1992 to 1999, he was a research scientist at the GeoForschungsZentrum in Potsdam, Germany. At the GFZ, his work was on the nature of the Earth's Upper Mantle. He received his Ph.D. in Seismology/Geophysics from Lamont-Doherty Earth Observatory of Columbia University.



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**Mahmoud Fallahi**

ENG—Engineering

Division of Electrical Communication and Cyber System (ECCS)

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**Mahmoud Fallahi** has been at NSF since August 2014 where he manages the optics and photonics program and promotes and manages translational and cross-disciplinary research programs in the field of optics and photonics. He has also been a professor in the College of Optical Sciences at the University of Arizona since 1995. Before that, he worked at the National Research Council of Canada from 1989 to 1995. He received his Ph.D. degree from the University of Toulouse and LAAS-CNRS, France. His recent research interests are in high power semiconductor lasers, tunable sources, nonlinear frequency generation, photonic integrated circuits, micro/nanofabrication, and heterogeneous integration.



**Jodie Jawor**

BIO - Directorate for Biological Sciences

Division of Integrative Organismal Systems (IIS)

[jjawor@nsf.gov](mailto:jjawor@nsf.gov)

**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. For her, research questions have focused mainly on the hormone influences of parental behavior, aggressive behavior, and the responses of stress and reproductive hormone axes to seasonal change.



**Raffaella Montelli**

OIA - Office of Integrative Activities

Established Program to Stimulate Competitive Research (EPSCoR)

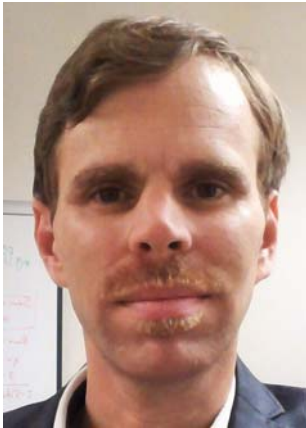
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**Raffaella Montelli** joined NSF in January 2012 as a program director for the geophysics program in GEO's Division of Earth Science. Since, she has led innovation activities at GEO working collaboratively across ENG and CISE. She developed the GEO partnership in the Industry/University Cooperative Research Center (I/UCRC) Program, that she managed in addition to I-Corps and GOALI programs. In June 2014, she took the reins of the ENG Industry/University Cooperative Research (I/UCRC) and enhanced its funding model and structure. She has recently taken a position in OIA EPSCoR. Prior to coming to NSF, Raffaella was a senior geophysicist at ExxonMobil Exploration Company. She holds a Master in Physics from the University of Bologna in Italy, a Ph.D. in geophysics from Princeton University, and a Doctorat en Sciences de l'Univers from the University of Nice-Sophia Antipolis in France. She has authored peer-reviewed papers that have influenced the course of seismology and have received media recognition and has received many awards for her technical achievements and leadership.



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### Jacques Verstraete

MPS—Mathematical and Physical Sciences  
Division of Mathematical Sciences (DMS)

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**Jacques Verstraete** is a research associate professor from the University of Nebraska – Lincoln on rotation at NSF. He has a joint appointment at UNL in the Department of Physics and Astronomy and the Center for Science, Mathematics & Computer Education. He primarily works on developing technology-based teaching materials for the introductory astronomy classroom. These materials include simulations, a database for peer-instruction, animated ranking and sorting tasks, and videos of demonstrations commonly performed in the introductory astronomy classroom. His teaching makes use of all of these in addition to web-based assessment and “flipping.”



### Antoinette WinklerPrins

SBE – Social Behavioral and Economic Sciences  
Division of Behavioral and Cognitive Sciences (BCS)

[swinkler@nsf.gov](mailto:swinkler@nsf.gov)

**Antoinette WinklerPrins** is a permanent NSF program officer in the Geography and Spatial Sciences program, as well as in the cross-directorate program in Coupled Natural and Human Systems. From the University of Michigan she received her B.A. in geography and Masters of Urban Planning (M.U.P.), with an emphasis on international development. She completed a Ph.D. in geography from the University of Wisconsin-Madison, with a minor in soil science and a post-doc in soil science at what is today the University of Twente in The Netherlands. Antoinette spent ten years on the Michigan State faculty before doing a rotation at NSF, and was then the director for Environmental and GIS Programs in the Krieger School of Arts and Sciences of the Johns Hopkins University for three years. She returned to NSF permanently in 2016.



### Jie Yang

CISE — Computer and Information Science and Engineering  
Division of Information and Intelligent Systems (IIS)

[jyang@nsf.gov](mailto:jyang@nsf.gov)

**Jie Yang** is the leader of the Robust Intelligence Cluster and oversees computer vision research. He has also been involved in many other crosscutting programs. Before joining NSF in 2008, he was a faculty member in the School of Computer Science at Carnegie Mellon University, where he worked on multimodal/multimedia, computer vision, pattern recognition, robotics, and automatic control. His publications can be found on [Google Scholar](#). He is also an IEEE (Institute of Electrical and Electronics Engineers) fellow.



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May 3, 2017



### **Lisa-Joy Zgorski**

O/D—Office of the Director

Office of Legislative and Public Affairs (OLPA) External Affairs

[lisajoy@nsf.gov](mailto:lisajoy@nsf.gov)

**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. Lisa-Joy served as a legislative aide for U.S. Rep. Barbara Kennelly (CT); press secretary for the U.S. Patent and Trademark Office and (then-candidate) Gov. Dan Malloy of Connecticut, and as a public affairs specialist in the press offices of U.S. Commerce Secretary Ron Brown, the Office of Management and Budget and The Century Foundation. She 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.



## NSF DAY SPEAKERS

From the UWL

May 3, 2017



### William Gern

Vice President for Research and Economic Development  
Professor of Zoology and Physiology  
University of Wyoming Laramie

**William Gern** has been a professor of zoology and physiology for over 30 years, and has previously served as department head for nine years. Since 1994, he has served as Vice President for research and economic development. Throughout his career, he has placed the utmost importance on increasing the participation of undergraduate students in the role of researcher. He has worked successfully with faculty, staff and students in all seven colleges of UW to develop successful research and technology development programs. He has also led UW's outreach programs to integrate research, technology transfer and economic development. With a Ph.D. in biology, he has carried out research into environmental effects, such as those associated with acid precipitation on aquatic life. He has won numerous university teaching awards and is on several boards, including the EPSCoR States Coalition Board, the Wyoming Industrial Development Corporation, the Ruckelshaus Institute for Environment and Natural Resources, and the Wyoming State Geology Survey Advisory Board of Directors.



### Laurie Stenberg Nichols

President  
University of Wyoming

**Laurie Stenberg Nichols** on May 16, 2016 became the 26th president of the University of Wyoming and first woman to hold the post. A native of South Dakota, she received her B.S. in Home Economics Education from South Dakota State University. Advanced degrees include a M.Ed. in Vocational and Adult Education from Colorado State University and Ph.D. in Family & Consumer Sciences Education/Family Studies from Ohio State University. She has taught at the secondary and post-secondary levels in South Dakota, Colorado, Nebraska, Ohio, Idaho and Iowa, and received numerous teaching and research awards for her innovative teaching including her involvement in the creation of a 10-state, collaborative, on-line program called the Great Plains IDEA. From 1994 to 2009 she served as Dean of the College of Family and Consumer Sciences at South Dakota State University. She provided campus leadership on several initiatives including diversity, academic advising, and strategic planning. She has secured numerous grants to collaborate with South Dakota tribal colleges in the areas of curriculum development, and articulation.



**NSF DAY SPEAKERS**  
**Luncheon Speakers**  
**May 3, 2017**



**Andrea C. Burrows**

Assistant Professor, Department of Secondary Education  
University of Wyoming College of Education

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**Andrea Burrows** earned a B.S. from the University of Central Florida, an M.S. from Florida State University, and then taught middle and high school science for 12 years in Florida and Virginia. After obtaining an Ed.D. from the University of Cincinnati, she began as an assistant professor teaching and implementing grant work in the University of Wyoming's College of Education (CoEd) in 2011. There she was involved with raising over \$2m in grants and awards. She currently serves as the PI on a 1.2m NSF Noyce grant (named SWARMS), which recruits STEM students into secondary K12 teaching. Additionally, she has been involved with NSF GK12, RET, REU, ITEST, IUUSE, NRT, AST, EPSCoR, and PhysTec programs. Her recent research includes partnership work through integrated STEM disciplines with pre-service and in-service teachers.



**Brent Ewers**

Professor, Department of Botany  
Project Director, NSF Wyoming EPSCoR Office  
University of Wyoming

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**Brent Ewers** earned his B.S. in forest biology at Colorado State University and an M.S. and Ph.D. in ecology from Duke University. He investigates how plants control energy flows and mass cycles at scales ranging from organs to landscapes. His lab group uses a variety of tools in their investigations including gas exchange, isotope ratios, lab-induced embolism, sap flux, micrometeorology, remote sensing, spatial analyses and process-based modeling. He is the principal investigator on a \$20m, five-year NSF EPSCoR Track-1 Research Infrastructure Improvement award.



**Barbara E. John**

Professor, Department of Geology and Geophysics  
University of Wyoming Laramie

[BJohn@uwyo.edu](mailto:BJohn@uwyo.edu)

**Barbara John** teaches structural geology/tectonics and igneous processes. She received a B.A. at the University of California-Berkeley, and a Ph.D. at the University of California-Santa Barbara. On completion of her Ph.D., she taught at Cambridge University in the United Kingdom for six years before moving back to the United States and to Wyoming in 1993. She is the recipient of several NSF research grants. Enabled by her most recent award, she led a voyage to the bottom of the Pacific Ocean and discovered five previously unknown active hydrothermal vents and a completely new vent site.