



ference. Garfunkel served on the MRS Partnership Assessment Task Force and on the Africa Subcommittee of the MRS International Relations Committee.

#### **Sossina M. Haile (2015)**

Haile is the Carl F. Braun Professor of Materials Science and of Chemical Engineering at the California Institute of Technology. Her research broadly encompasses solid-state ionic materials and devices, with particular focus on energy technologies. She was a principal editor for the *Journal of Materials Research* (1997–2001), co-organized several symposia, and currently serves as the faculty advisor for the local MRS Student Chapter.

#### **Andrea M. Hodge (2015)**

Hodge is a professor and the Philip and Cayley MacDonald Early Career Chair in the Aerospace and Mechanical Engineering Department with a joint appointment at the Mork Family Department of Chemical Engineering and Materials Science at the University of Southern California. Her research interests range from processing of nanocrystalline and nanoporous materials to nanomechanics of metals and biomaterials. For MRS, Hodge has served as a symposium organizer and as a chair of the 2011 International Materials Research Congress.

#### **Hideo Hosono (2016)**

Hosono is a professor in the Frontier Research Center and Materials and Struc-

tures Laboratory of Tokyo Institute of Technology, and founding director of the Materials Research Center for Element Strategy at the institute. His research focuses on electro-active functionalities in transparent oxides. For MRS, he has been both an organizer and an invited speaker for various symposia.

#### **Fiona C. Meldrum (2015)**

Meldrum holds a Chair in Inorganic Chemistry at the University of Leeds, where her research centers on bioinspired materials chemistry. For MRS, she has served as a symposium organizer, a co-chair for the 2013 International Materials Research Congress, and as a Volume Organizer for *MRS Bulletin*, where she currently serves on the Editorial Board.

#### **Kornelius Nielsch (2016)**

Nielsch is currently a professor and vice speaker at the Institute of Applied Physics (IAP) at the University of Hamburg, Germany. His research focuses on thermoelectric materials, topological insulators, and magnetic nanostructures. He has been a co-organizer for MRS symposia, a co-chair of the 2011 Spring Meeting, and he served on the Program Development Subcommittee.

#### **Eric A. Stach (2015)**

Stach is the Group Leader for the Electron Microscopy Group at the Brookhaven National Laboratory's Center for Functional Nanomaterials, and the Chief

Technology Officer for Hummingbird Scientific, which he co-founded in 2004. Stach is a Principal Editor for the *Journal of Materials Research* and has served as a guest editor for *MRS Bulletin*, a symposium organizer, and as a chair of the 2012 Fall Meeting.

#### **Stephen K. Streiffer (2014)**

Streiffer is currently Deputy Associate Laboratory Director for the Physical Sciences and Engineering Directorate (PSE) at Argonne National Laboratory. His scientific expertise is in nanostructured oxides and nitrides and in structural characterization of materials. For MRS, he served as a Volume Organizer for *MRS Bulletin*, as a symposium organizer, and as a member of the Public Outreach Committee that developed the traveling exhibition *Strange Matter* and the PBS NOVA four-part series *Making Stuff*.

#### **Lucas Tsakalakos (2016)**

Tsakalakos is currently the manager of the Photonics Laboratory at the General Electric–Global Research Center in Niskayuna, N.Y. His research focuses on the integration of heterogeneous thin film and nanostructured materials systems for micro- and nano-device applications, as well as on the characterization of materials. For MRS, he co-organized several symposia and served as a co-chair of the 2013 Fall Meeting.

## **Alshareef, Goyal, Morell, Varela, Yoo to chair 2014 MRS Fall Meeting**

[www.mrs.org/fall2014](http://www.mrs.org/fall2014)

The 2014 Materials Research Society Fall Meeting in Boston, November 30–December 5, will be chaired by Husam N. Alshareef (King Abdullah University of Science and Technology, Saudi Arabia), Amit Goyal (Oak Ridge National Laboratory, USA), Gerardo

Morell (University of Puerto Rico, PR), José A. Varela (University of São Paulo State–UNESP, Brazil), and In Kyung Yoo (Samsung Advanced Institute of Technology, South Korea). Updated information on the meeting is available at [www.mrs.org/fall2014](http://www.mrs.org/fall2014).

**Husam N. Alshareef** is a Professor of Materials Science and Engineering



at King Abdullah University of Science and Technology (KAUST). His research interests are in emerging electronics, energy harvesting, and energy storage. After earning his PhD degree in materials science and engi-



neering in 1996 from North Carolina State University, he worked as a post-doctoral fellow at Sandia National Laboratories where he researched functional electronic materials. He then embarked on a 10-year career in the semiconductor industry holding positions at Micron Technology and Texas Instruments, Inc. Alshareef has worked on several projects focusing on the development of new materials for memory and logic applications. He is the author of nearly 220 articles and has over 60 issued patents. He received the United Nations Undergraduate Fellowship, the Seth Sprague Physics Award, the NC State Dean's Fellowship, the US Department of Education Electronic Materials Fellowship, and the SEMATECH Corporate Excellence Award. Alshareef is a Member of the Materials Research Society and a Senior Member of the IEEE.

**Amit Goyal** is a Corporate Fellow and Distinguished Scientist at



UT-Battelle/Oak Ridge National Laboratory. He is also a Battelle Distinguished Inventor. He is presently the chair of the UT-Battelle/

ORNL Corporate Fellows Council. He is the Founder and President of Tape-Solar, Inc., a private-equity funded start-up company and also the Founder and President of TexMat LLC, an IP holding company. Goyal received a BTech degree from the Indian Institute of Technology, Kharagpur, India, and MS and PhD degrees from the University of Rochester. In 2006, Goyal was awarded the University of Rochester's Distinguished Scholar Medal, and in 2010 he received the Distinguished Alumnus Award from the Indian Institute of Technology. His other honors include the 2012 World Technology Award in the category of materials, the 2011 DOE's E.O. Lawrence Award, the 2010 R&D 100 Magazine's "Innovator of the Year" Award, and three National Federal Laboratory Consortia Awards

for excellence in technology transfer. Goyal has co-authored over 350 publications and has over 75 issued patents. He is a Fellow of eight professional societies including MRS.

**Gerardo Morell** is a full professor of physics at the University of Puerto Rico (UPR), Rio Piedras Campus. He received a BS degree in physics, and a MSc degree in solid-state physics studying the anharmonic

interactions of phonons. He obtained a PhD degree in chemical physics in 1995, and joined UPR as associate professor and researcher the same year. Morell's research interests focus on the synthesis and technological applications of nanocrystalline diamond, graphene, and carbon nanocomposites. Morell's group pioneered and patented the use of aliphatic polymers for the synthesis diamond on unseeded surfaces. He has published over 100 articles and was awarded UPR's Research Productivity Award in 2001. Morell partnered with Brad R. Weiner to establish UPR's Nano Carbon Materials Research Laboratory. In January 2004, he was appointed director of the NASA Puerto Rico Space Grant and the NASA Puerto Rico EPSCoR programs. In September 2006, Morell was appointed director of the Department of Physics. In May 2012, Morell chaired the International Conference on New Diamond and Nano Carbons that was held in San Juan, Puerto Rico.

**José A. Varela** is a professor of physics at the University of São Paulo



State (UNESP) and CEO of the São Paulo State Research Funding Agency (FAPESP), both in São Paulo State, Brazil. He received a BS

degree from the University of São Paulo State and a MS degree at the Technological Institute of Aeronautics in Brazil. He received a PhD degree from the University of Washington, Seattle. He is a Fellow of the American Ceramic Society and past president of MRS Brazil. He is currently serving as Principal Editor of the *Journal of Materials Research*. Varela's main research interests are centered in synthesis and processing of nanostructured functional materials in bulk, thin, and thick films for several applications. He has authored or co-authored more than 580 articles and he holds 11 patents in Brazil. His research programs have received multiple awards, including the São Paulo State Governor Award (1992), Epsilon de Ouro Prize given by the Spanish Ceramic Society (2003), Scopus Prize given by Elsevier (2008), and the Global Star Award given by The American Ceramic Society (2013).

**In Kyeong Yoo** is a Samsung Fellow at Samsung Electronics in South Korea.



He received a BS degree in metallurgical engineering from Hanyang University in 1975 and MS and PhD degrees in materials science and

engineering from Virginia Polytechnic Institute and State University (Virginia Tech) in 1986 and 1990, respectively. He described several electrical failure mechanisms in ferroelectrics including breakdown mechanisms and fatigue mechanisms when he joined Virginia Tech from 1991 through 1993. Yoo developed the first 1T-1C 64K PZT FRAM (ferroelectric random-access memory) in 1996. He pioneered an oxide thin-film transistor for liquid-crystal display application and developed the first 1T-1R NiO resistance change memory in 2005. He has published more than 130 papers and filed more than 145 patents in fields including FRAM and RRAM. Yoo has received the FRAM Development Award in 1996 and four Patent Awards, as well as the Paper Award at Samsung. □