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Sinnott is a professor of materials science and engineering and a University of Florida Research Foundation Professor. She received her BS degree in chemistry from the University of Texas, Austin, and her PhD degree in physical chemistry from Iowa State University. She was a postdoctoral associate at the Naval Research

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Baskes is an adjunct professor in the Department of Mechanical and Aerospace Engineering at the University of California, San Diego (UCSD) and a laboratory associate-fellow at Los Alamos National Laboratory (LANL). He obtained his BS degree in engineering in 1965 and his PhD degree in materials science in 1970, both from the California Institute of Technology. He was then employed at Sandia National

Laboratories, LANL, and UCSD. Baskes's interests encompass the use of computational methods to investigate material properties. His major scientific accomplishments have been the development of the embedded atom method; the development of models to predict the behavior of helium in metals; and the development of a model to explain hydrogen isotope recombination. He is a member of The Minerals, Metals and Materials Society (TMS), Sigma Xi, the Materials Research Society, and a fellow of LANL, TMS, and the Institute of Physics. Baskes has authored or co-authored more than 190 technical publications that have had more than 5900 citations. Of these publications, three have more than 1000 citations, and 18 have more than 100 citations each. He has received two Department of Energy (DOE) awards for outstanding research and is in the DOE/BES Hall of Fame.


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Finnis holds the chair in theory and simulation of materials at Imperial College, London, and is currently deputy director of the Thomas Young Centre—The London Centre for Theory and Simulation of Materials. Following his MA and PhD degrees at the Cavendish Laboratory in Cambridge, he was a staff scientist at AERE Harwell and subsequently worked at the Fritz-

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Gumbsch is head of the Fraunhofer Institute for Mechanics of Materials IWM and chair for Mechanics of Materials at Karlsruhe Institute of Technology (KIT). His research interests are centered on the mechanical properties of materials, including microstructural and confinement aspects. His current focus is on tribology and atomistic aspects

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Liang is a research scientist in materials science and engineering at the University of Florida (UF). He received his BA degree from Jilin University, China, in 1997 and his PhD degree from The Ohio State University in 2005, both in materials science and engineering. He joined the Department of Materials Science and Engineering at UF as a postdoctoral researcher in 2006 and became a research scientist in 2009. Liang's research focuses on developing advanced empirical potentials for multifunctional multicomponent systems and using atomistic, electronic-structure, and quantum chemical simulation methods to address the properties and processing of materials, including nanotribology, surface chemistry of target materials through polyatomic ion-beam deposition, physical, chemical, and electrical properties of organic materials, metals, oxides, semiconductors, and their interfaces.



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Moseler is a professor in the Physics Department of the University of Freiburg and is head of the work group "Multiscale Modeling and Tribosimulations" at the Fraunhofer Institute for Mechanics of Materials IWM. His work covers classical molecular dynamics simulations of friction, lubrication, and wear processes, phase

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Noordhoek is a graduate student in materials science and engineering at the University of Florida. He earned his BSE degree in materials science and engineering from the University of Michigan in 2009. His research uses atomic simulation methods to study corrosion in nuclear fuel claddings.



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Phillpot is a professor of materials science and engineering at the University of Florida (UF) and a UF Research Foundation professor. He received his BA degree from Oxford University in 1980 and his PhD degree from UF in 1985, both in physics. He spent 16 years at Argonne National Laboratory in Chicago prior to joining UF in 2003. Phillpot's research focuses on using

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Steve Plimpton

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Plimpton has been a member of the technical staff at Sandia National Laboratories since 1989. He earned his PhD degree in applied and engineering physics from Cornell University. Plimpton develops algorithms and software for materials modeling at various scales, including the LAMMPS molecular dynamic package discussed in his article in this issue of *MRS Bulletin*. He also works on more coarse-grained methods, including kinetic Monte Carlo techniques.



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Shan is a postdoctoral appointee at Sandia National Laboratories in Albuquerque, New Mexico. He was a graduate student in materials science and engineering at the University of Florida (UF), working with professors Susan Sinnott and Simon Phillpot. Shan received his BA and MS degrees in materials science and engineering from National Cheng Kung University in Taiwan in 2001 and 2003, respectively,

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Shin is a postdoctoral fellow working with Adri van Duin in the Department of Mechanical and Nuclear Engineering at The Pennsylvania State University. She received her PhD degree in 2011 in chemistry from The Ohio State University. Her current research focuses on development and applications of the ReaxFF force field to the study of oxidation reaction on complex nanoalloys and material properties.



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Thompson has been a member of the technical staff at Sandia National Laboratories for 14 years. He earned his PhD degree in chemical engineering from the University of Pennsylvania. Thompson develops and implements new algorithms, features, and interatomic potentials in LAMMPS. He also collaborates with other scientists, applying atomistic simulation meth-

ods to understand the effect of atomic-scale mechanisms on the behavior of condensed matter.



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van Duin is an associate professor in the Department of Mechanical and Nuclear Engineering at The Pennsylvania State University (PSU). He earned his PhD degree from the Delft University of Technology in 1997. From 1997 to 2002, he worked at the University of Newcastle in Tyne, UK, as a postdoctoral scientist on computational chemical simulations applied to organic geochemistry. In 2002, van Duin joined the

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