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A member of the National Academy of Engineering, he shared the 2008 Japanese NIMS Award for Recent Breakthroughs in Materials Science for Energy and Environment and is a Distinguished Life Member of the American Ceramic Society. Clarke has published more than 450 papers in areas of materials ranging from thermal-barrier coatings to dielectric elastomers to fundamentals of oxidation to microelectronics reliability and the electrical and optical properties of ZnO and GaN.



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methods. Particular applications of interest are phonons thermal transport in technologically important systems such as nuclear fuels and thermal-barrier coatings.

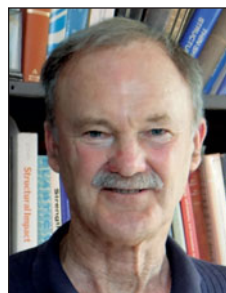


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Lipkin is a senior materials scientist at GE Global Research, where he has worked since 1996. He received his PhD degree in materials science from the University of California, Santa Barbara, and a BS degree in materials science from Northwestern University. His current research is focused on developing advanced alloys, coatings, and coating processes for high-temperature and structural applications. These include oxidation-resistant, thermal-barrier, and environmental-

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

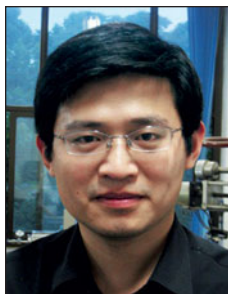
istic and electronic-structure simulation methods to address issues in phonon-mediated heat transfer, ferroelectric and dielectric behavior, defect properties in oxides, mechanical behavior of metals, and tribology. He also works on developing advanced potentials for multifunctional systems. Phillpot is a Fellow of the American Physical Society, the American Association for the Advancement of Science, the Institute of Physics (UK), and the Institute of Materials, Minerals and Mining (UK).


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inspection, welding, and metallurgy. He was recently awarded "Siemens Inventor of the Year 2009" for outstanding innovation.



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