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Guest Editor for this issue of *MRS Bulletin*

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Evans is a senior research scientist at Pacific Northwest National Laboratory. He received his PhD degree in biochemistry and molecular biology from the University of California, Davis in 2007. His research interests include developing new multimodal, multiscale, and *in situ* approaches for probing 2D and 3D biosystem

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Sara Bals

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Bals is a professor in the Electron Microscopy for Materials Research Group at the University of Antwerp. She received her PhD degree from the University of Antwerp in 2003. Prior to her present position, she joined the National Center for Electron Microscopy at the Lawrence Berkeley National Laboratory. Her research interests include the application and further devel-

opment of electron tomography for advanced nanostructured materials. In 2013, she received a European Research Council Starting Grant.



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Bradley is a research fellow at the Henry Moseley X-Ray Imaging Facility (HMXIF). He received his BA and MSc degrees in natural sciences (physics) at the University of Cambridge before earning his PhD degree at The University of Manchester. He joined the School of Materials at The University of Manchester in 2008 and helped establish the HMXIF. His research interests include the development and application of phase-contrast and nanoscale x-ray tomography, with a particular focus on 4D studies of natural materials.



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Dahmen joined the German Research Center for Artificial Intelligence in 2013, where he heads the Computational 3D Imaging team. He received his diploma and PhD degree in computer science in Saarbrücken, Germany, in 2004 and 2015, respectively. He made a first career working as a technical consultant for SAP Germany. His research interests include

algorithms for 3D imaging and tomographic reconstruction, particularly on the question of how maximum information can be acquired using a minimum of measurements. Dahmen won a Presidential Scholar Award at the Microscopy & Microanalysis Conference in 2015.



Annick De Backer

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De Backer is a postdoctoral researcher in the Electron Microscopy for Materials Research Group at the University of Antwerp. She received her PhD degree at the University of Antwerp in 2015. De Backer's research focuses on new developments in the field of model-based atomic-resolution electron microscopy aiming at quantitative structure characterization of nanostructures with the highest possible precision using advanced statistical techniques.

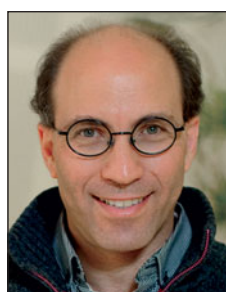


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De Jonge is a senior group leader at the Leibniz Institute for New Materials and an honorary professor of experimental physics at Saarland University, Germany. He received his MSc degree in experimental physics from the University of Amsterdam, The Netherlands, and a PhD degree in natural sciences with specialization in biophysics from the University of Freiburg, Germany. He worked as a senior scientist at

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Elbaum leads a lab at the Weizmann Institute of Science in the Department of Materials and Interfaces. He studied physics at Brown University and the University of Washington, and completed his postdoctoral studies at the Technion-Israel Institute of Technology in Israel. He studied biological physics during a year spent jointly at the NEC Research Institute and

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Goris is a postdoctoral researcher in the Electron Microscopy for Materials Research Group at the University of Antwerp. He received his PhD degree at the University of Antwerp in 2014. Goris's research interests include new developments in the field of electron microscopy and electron tomography in order to obtain three-dimensional structural and chemical information on different nanomaterials with a resolution up to the atomic scale.

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Houben is a senior research staff scientist in the Department of Chemical Research Support at the Weizmann Institute of Science (WIS). He received his PhD degree in physics from the Heinrich-Heine-Universität Düsseldorf. Prior to joining the WIS, he worked at the Forschungszentrum Jülich GmbH and was interested in the pioneering applications of aberration-corrected trans-

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Leary is a junior research fellow at Clare College and the Department of Materials Science and Metallurgy at the University of Cambridge. He received his MEng and BEng degrees in materials science and engineering at the University of Leeds, and his PhD degree from the University of Cambridge. Leary's research involves the development of a variety of multi-

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Midgley is a professor of materials science and the director of the Wolfson Electron Microscopy Suite in the Department of Materials Science and Metallurgy, University of Cambridge. He received his MS degree in 1988 and his PhD degree in 1991, both from the University of Bristol. He is a Fellow of The Royal Society and a Professorial Fellow at Peterhouse. Midgley

has studied a wide variety of materials by electron microscopy and developed a number of novel electron microscopy techniques, in particular, electron tomography and precession electron diffraction.

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Slusallek has been a professor for computer graphics at Saarland University since 1999. He is also scientific director at the German Research Center for Artificial Intelligence, where he leads the Agents and Simulated Reality Research Group, director for research at the Intel Visual Computing Institute, and a principal investigator at the German Cluster of Excellence "Multimodal

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Trampert joined the German Research Center for Artificial Intelligence in 2015. He studied mathematics and computer science in Saarbrücken, Germany. Prior to his present position, he worked at the Center for Bioinformatics on topics of applied statistics for gene expression as well as statistical learning and network analysis. Trampert is currently pursuing his PhD degree.

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Van Aert has been a professor in the Electron Microscopy for Materials Research Group at the University of Antwerp since 2009. She received her PhD degree from the Delft University of Technology, The Netherlands, in 2003. Van Aert's research focuses on new developments in the field of model-based electron microscopy aiming at quantitative measurements of atomic positions, atomic types, and chemical concentrations with the highest possible precision.

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Van Tendeloo is a professor at the University of Antwerp and a guest professor at Wuhan University in China. He received his PhD degree in physics from the University of Antwerp in 1974. His research interests include the application of electron microscopy to different aspects of materials science. He has authored or co-authored more than 1000 journal papers. Van Tendeloo's awards include a European Research Council Advanced Grant and the Research Foundation—Flanders Excellence Prize.

Council Advanced Grant and the Research Foundation—Flanders Excellence Prize.



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include establishing correlative tomography linking x-ray and electron microscopy to provide multifaceted, multiscale information.



Sharon G. Wolf
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research interests include developing cryo-STEM tomography for biological cells and other vitrified specimens.

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