

Meet the Authors



Alan P. Boyle is a senior lecturer of petrology in the Department of Earth and Ocean Sciences at Liverpool University. He has studied regional metamorphism and tectonics in the Scandinavian and Irish

Caledonides and in Saudi Arabia. More recently, he switched to grain-scale microstructural studies of regionally metamorphosed silicate and sulfide rocks, using electron backscatter diffraction as a key analytical tool to investigate mineral growth and deformation mechanisms. In parallel with this, he has been involved in pedagogical research through some key national UK-based projects for computer-based learning (UKESCC) and assessment (TRIADS), and is currently investigating the affective domain.



Barbara L. Dutrow is the Adolphe G. Gueymard Professor in the Department of Geology and Geophysics at Louisiana State University. She received her PhD in 1985 from Southern Methodist

University, where she worked on field, experimental, and theoretical studies of metapelitic rocks. Subsequently, she received an Alexander von Humboldt Fellowship. Her more recent research involves computational studies of heat and mass transport related to fluid-rock interactions in the crust. She also teaches courses that interweave Earth materials with societal issues. She is the current president of the Mineralogical Society of America.



Cathryn A. Manduca is the director of the Science Education Resource Center at Carleton College, Minnesota, where she is involved in a variety of projects that support improvements in geoscience and science education. Her work includes serving as a community leader, organizing workshops and other activities for faculty and educators of all types, and developing web resources that link teaching resources, pedagogy, and discussion. She is chair of the AGU Committee on Education and Human Resources, a past president of the National Association of Geoscience Teachers, and the 2004 recipient of AGU's Excellence in Geophysical Education Award.

past 15 years, he has worked on many aspects of geoscience education, including advocacy for an Earth system science approach, development of instructional digital libraries, integration of research and education, and faculty professional development programs. He was a program director in the Division of Undergraduate Education of the National Science Foundation. In 2000, he was recipient of the American Geophysical Union Excellence in Geophysical Education Award. His research interests include the evolution of



David W. Mogk is a professor of geology at Montana State University. He received a BS degree from the University of Michigan and MS and PhD degrees from the University of Washington. Over the

past 15 years, he has worked on many aspects of geoscience education, including advocacy for an Earth system science approach, development of instructional digital libraries, integration of research and education, and faculty professional development programs. He was a program director in the Division of Undergraduate Education of the National Science Foundation. In 2000, he was recipient of the American Geophysical Union Excellence in Geophysical Education Award. His research interests include the evolution of

Archean continental crust, petrologic processes at mid-crustal levels, spectroscopy of mineral surfaces, and the search for life in extreme environments.



Dexter Perkins is a professor of geology at the University of North Dakota. He received his BS at the University of Rochester and PhD from the University of Michigan (1980). During the past 30 years, Dexter

has published many articles dealing with thermodynamics and metamorphic petrology and has written two textbooks. Many of his recent publications, however, deal with science education. Dexter enjoys field work and especially enjoys taking students into the field.



Karl R. Wirth, associate professor in the Geology Department at Macalester College, Minnesota, received his undergraduate training in geology at Beloit College and a PhD from Cornell University

(1991). His research involves undergraduate students and utilizes geochemical and geochronologic tools to investigate magmatism associated with continental rifts, oceanic islands, and Precambrian terranes. Recently, his scholarship has broadened to include teaching, learning, and instructional methods.



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