

# GSA TODAY

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## **Buckling an orogen: The Cantabrian Orocline**

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## 2012 GSA Fellows

of training young earth scientists, particularly as co-director of the International Geobiology Summer Course; [and] laudable commitment to serving professional organizations, including as chair of the GSA Geobiology-Geomicrobiology Division.”

—David J. Bottjer

**Randel Tom Cox**, University of Memphis, “has 24 significant articles pertaining to active faults and tectonic geomorphology in the New Madrid seismic zone, the greater Mississippian embayment, South Carolina, the Bay of Honduras, and Spain. His 16 other articles include five on cicadas and several on hotspots and regional tectonics.” —Mervin J. Bartholomew

**Jean M. Crespi**, University of Connecticut, “is an unselfish contributor to GSA, including three years on the NE section Management Board, and Chair of the NE section meeting for 2012. Her research in structural geology of ancient and modern orogens, both in the Taconic slate belt and Taiwan, is innovative and enlightening.” —Laurie L. Brown

**Dennis E. Dahms**, University of Northern Iowa, “is an authority on the glacial geologic history of the Wind River Range of Wyoming, demonstrated with his 2004 review paper in *Quaternary Glaciations - Extent and Chronology, Part II: North America*, and a 46-page treatise published as GSA Digital Maps and Charts Series no. 7 in 2010.” —P. Thompson Davis

**Shanaka L. de Silva**, Oregon State University, is nominated for “his extensive contributions to the scientific literature in volcanology, petrology, and geochemistry, for being a highly effective mentor to numerous graduate and undergraduate research students, and for his deep involvement with education/outreach and improving diversity in the geosciences.” —Diane R. Smith

**David P. Dethier**, Williams College, “excels at producing exceptional undergraduate students who go on to graduate school, collaborate on innovative senior thesis research, and co-author solid papers. His research in the geomorphology of weathering and soils is varied, quantitative, and high quality. He also excels at applied research, mainly involving mass movements.” —Peter W. Birkeland

**Tamara L. Dickinson**, Office of Science & Technology (OSTP) and USGS, “is nominated for her exceptional contributions to administration of geologic programs and to science policy. Having held positions at NASA, NSF, NAS-NRC, USGS, and OSTP, her work has advanced the geosciences, organizations and informed Congress and the President.” —Barbara L. Dutrow

**Robert Dunn**, University of Hawaii–Mānoa, “has made numerous contributions to the understanding of the seismic structure of oceanic spreading centers, back-arc basins and hotspots. His ground-breaking results document the distribution of melt beneath spreading centers placing fundamental constraints on the accretion of oceanic lithosphere across a range of tectonic settings.” —Jeffrey A. Karson

**Annette S. Engel**, University of Tennessee, “has made important scientific contributions to the field of biogeochemistry of the subsurface environment, particularly in karst terrain. Her work has led to new insights into biological processing of chemical compounds in aphotic and hydrothermal settings and more recently along the Gulf Coast.” —Carol M. Wicks

**Ismael Ferrusquia-Villafranca**, Universidad Nacional Autónoma de México, is a “senior researcher at the Instituto de Geología at UNAM; a UNAM lecturer in stratigraphy; initiated UNAM Vertebrate Paleontology studies—a lifetime undertaking; authored >190 scientific papers; supervised >30 thesis/dissertations; peer-reviewed >60 scientific papers; former chair, North American Commission on Stratigraphic Nomenclature; member, eight professional organizations and founder of two.” —Robert A. Levich

**John M. Ferry**, Johns Hopkins University; elected to Fellowship as the 2011 MGPV Division Distinguished Geologic Career Award recipient.

**Malcolm S. Field**, U.S. Environmental Protection Agency, “is EPA’s expert on water tracing and contaminant transport in karst, with an international reputation. He is author of several computer software packages and about 60 publications on karst hydrogeology, and is editor-in-chief of the *Journal of Cave and Karst Studies*, the world’s leading journal in that field.” —Arthur N. Palmer

**Ronald V. Fodor**, North Carolina State University, is nominated for Fellowship for outstanding publication of geologic research and training geologists. Ron has published papers on chondritic meteorites; oceanic volcanics; mafic and ultramafic xenoliths; silicic intrusive rocks; and volcanic rocks in Arizona, Brazil, Hawaii, Hungary, and Slovakia. He is an enthusiastic and dedicated teacher.” —M. James Aldrich

**Lisa R. Gaddis**, U.S. Geological Survey–Flagstaff, “is one of the foremost researchers in lunar pyroclastic volcanism. She has also made significant contributions to planetary research on Mars, Venus and the Earth. She is adept at utilizing complementary datasets to resolve key questions, has served her community in numerous leadership roles, and has made important contributions to public education.” —Louise M. Prockter

**Stephen Gao**, Missouri University of Science & Technology, “is an internationally recognized geophysicist whose research has focused on geological questions at both the regional and local scale. He is also an excellent teacher and mentor. His research focuses on lithospheric structure, understanding the structure and evolution of rift zones, and studies of earthquake phenomena.” —G. Randy Keller

**Ronald T. Green**, Southwest Research Institute, is nominated for “his applied research contributions in the conceptualization and development of instruments and numerical codes that have allowed hydrogeologists to more completely assess and better understand controlling influences of flow and transport in karst aquifers.” —John Van Brahana