



# Plenary Overviews

<p>1</p>	<p><b>Jose Centeno</b> Center for Devices and Radiological Health Office of Science and Engineering Laboratories U.S.A. Food and Drug Administration</p>	
	<p>Title: Health Effects of Natural Dust - Defining the Risk from a Chemical, Medical Geology and Environmental Pathology Perspective</p>	
<p><b>Dr. José A. Centeno</b> is the Director of the Division of Biology, Chemistry and Materials Science (DBCMS) located within the Office of Science and Engineering Laboratories (OSEL) – Center for Devices and Radiological Health (CDRH) – US Food and Drug Administration (US FDA). He has responsibility for oversight of all laboratory research programs, including in the areas of biocompatibility, toxicology, risk assessment, and materials science. He is a subject matter expert in toxicology, with special expertise in metals toxicology. In his current position at the USFDA, he oversees a research portfolio, the outcomes of which lead to safer medical devices. The research program directed by Dr. Centeno contributes to regulatory decision-making in CDRH and directly impacts the development of draft CDRH guidance documents and international standard documents in the areas of nanotechnology, biocompatibility and toxicological risk assessment.</p> <p>Dr. Centeno received his BS (Chemistry) and MS (Physical Chemistry) from the University of Puerto Rico at Mayagüez; and a Ph.D. in Physical Chemistry from Michigan State University. He completed a postdoctoral training in biophysics at the U.S. Armed Forces Institute of Pathology. Prior to joining the FDA, Dr. Centeno worked for the U.S. Department of Defense (DoD) for 25-years, serving as a senior research scientist and Director of the Division of Biophysical Toxicology for the Armed Forces Institute of Pathology. His last DoD assignment was with the Joint Pathology Center as Director, Division of Biophysical Toxicology and Depleted Uranium Surveillance Laboratory Program, Malcolm Grow medical Center, Andrews Air Force Base. Dr. Centeno is a founding member and Past-President of the International Medical Geology Association (IMGA), founder of the International Medical Geology Conference Series (MEDGEO), Fellow of the Royal Society of Chemistry, London, UK, and Academician of the Royal Academy of Medicine of Andalusia Oriental-Granada, Spain.</p> <p>From 2005-2015, he served as Regional Officer for the International Union of Geological Sciences and its Commission on Geosciences for Environmental Management (IUGS-GEM), and as a Senior Advisor for the IUGS-International Year of Planet Earth (2007-2009). He serves on the Editorial Board of several scientific</p>		

	<p>journals, as associate editor of the book on Essentials of Medical Geology (1st Edition 2005, 2nd Edition 2013), and as associate editor of the book Metal Contaminants in New Zealand (2005). Dr. Centeno has served as Chairman and/or Co-Chairman of international and national conferences including the 6th International Conference on Metal Ions in Biology and Medicine (2000, 2002, 2004, 2006), the National Vaccine Conference (2002), and the International Conference on Medical Geology (2005). He has devoted his scientific career and over 100 scientific publications covering the areas of toxicology, environmental pathology, tissue reactions from bioimplantable materials, medical geology, and health effects of trace elements, metals and metalloids, and has been invited to speak in over 50 countries.</p>	
2	<p><b>Robert Finkelman</b> Dept. of Geosciences, University of Texas at Dallas</p>	
	<p>Title: The Importance of Guizhou Province, P. R. China to Modern Medical Geology</p>	
<p><b>Dr. Robert B. Finkelman</b>, Research Professor in the Dept. of Geosciences at the University of Texas at Dallas and Adjunct Professor at the China University of Geosciences, Beijing. Retired in 2005 after 32 years with the U.S. Geological Survey. Internationally recognized scientist widely known for his work on coal chemistry and as a leader of the emerging field of Medical Geology. Dr. Finkelman has degrees in geology, geochemistry, and chemistry. He has lectured and provided mentorship at colleges and universities around the world. Most of Dr. Finkelman's professional career has been devoted to understanding the properties of coal and how these properties affect coal's technological performance, economic byproduct potential and environmental and health impacts. Dr. Finkelman is the author of almost 800 publications and has been invited to speak in more than 50 countries. Dr. Finkelman has served as Chairman of the Geological Society of America's Coal Geology Division; Chair of the International Association for Cosmochemistry and Geochemistry, Working Group on Geochemistry and Health; founding member and past Chair of the International Medical Geology Association; President of the Society for Organic Petrology; member of the American Registry of Pathology Board of Scientific Directors and is Past-Chair of the GSA's Geology and Health Division. He was a recipient of the Ninninger Meteorite Award; recipient of the Gordon H. Wood Jr. Memorial Award from the AAPG Eastern Section; a Fellow of the Geological Society of America; and a recipient of the Cady Award from the GSA's Coal Geology Division. Dr. Finkelman was also awarded a U. S. State Department Embassy Science Fellowship for an assignment in South Africa and was a member of a National Research Council committee looking at the future of coal in the U.S.</p>		

3	<p><b>Shu Tao</b></p> <p>Academician of Chinese Academy of Science College of Urban and Environmental Sciences, Peking University</p>	
	<p>Title: Recent Trend of Air Pollution in China - A Sectorially Resolved Emission-Inventory Based Evaluation</p>	
<p><b>Dr. Shu Tao</b> is a professor in College of Urban and Environmental Sciences, Peking University. He is a member of Chinese Academy of Science and a member of National Steering Committee on Environmental Protection. He serves as Associate Editor of Environmental Science &amp; Technology. His current research interests include global emission inventories of various air pollutants, atmospheric transport and population exposure modeling, and household air quality. He has more than 200 papers published in peer-reviewed international journals with total citation over 16,000 and H-index (Web of Science) of 70.</p>		
4	<p><b>Yan Zheng</b></p> <p>School of Environmental Science and Engineering, Southern University of Science and Technology</p>	
	<p>Title: Lessons learned from Arsenic Mitigation</p>	
<p><b>Dr. Yan Zheng</b> became a Chair Professor in the School of Environmental Science and Engineering, Southern University of Science and Technology (SUSTech) in 2016, and was appointed the Associate Director, Office of Research in 2017. Before joining SUSTech, She held tenured faculty appointments at the City University of New York as an Executive Director of Facilities Professor of Earth and Environmental Sciences, a Professor of Chemistry and a Professor of Public Health.</p> <p>Professor Zheng is recognized for her multi-disciplinary research that contributed to the reduction of exposure to arsenic in private well waters in Bangladesh, China and USA. She has published more than 100 peer reviewed journal articles (Google Scholar citation &gt; 7000, h-index 43) in areas including geochemistry, hydrogeology, chemical oceanography, environmental health and policy. She obtained her PhD from Columbia University in 1999. She was the Director of School of Earth and Environmental Sciences, Queens College, City University of New York between 2007 and 2009. She was a water and sanitation specialist with UNICEF Bangladesh between December 2009 and 2011. In 2014 she was appointed a Chair Professor at the College of Engineering, Peking University. She was the President of the International Association for Advancement of Chinese Earth Sciences. Currently, she serves as an Associate Editor for Water Resources Research and chairs the IAH-MAR Commission's sustainability working group.</p> <p>Professor Zheng was elected a fellow of the Geological Society of America in 2010 and was a recipient of the Thousand Talent Program in 2014.</p>		

5	<p><b>Bing Yan</b> Guangzhou University</p>	
	<p>Title: A Systematic Exploration of Structure-Bioactivity Relationship of Fine Particles</p>	
<p><b>Bing Yan</b> got his Ph.D. from Chemistry Department of Columbia University in 1990 and carried out postdoctoral research at Physiology Department of University of Cambridge, U.K. and Department of Microbiology and Molecular Genetics at University of Texas Medical School in Houston from 1990 to 1993. From 1993 to 2005, he had worked on drug discovery research at Novartis and Bristol-Myers Squibb in U.S. He was a Full Professor (Member) at St. Jude Children’s Research Hospital in Memphis, Tennessee from 2007 to 2012 and Cheung Kong Scholar Professor at Shandong University and then Guangzhou University since 2005. He is now serving as Co-Editor-in-Chief for “Ecotoxicology and Environmental Safety” published by Elsevier. He has published 11 books in English and more than 230 peer-reviewed papers.</p>		
6	<p><b>Aihua Zhang</b> Guizhou Medical University</p>	
	<p>Title: Epidemic factors, Pathogenesis and its Application in the Prevention and Treatment of Arsenicosis : A population-based Study in a Unique Coal-borne Arsenicosis Area in Guizhou, China</p>	
<p><b>Professor Aihua Zhang</b> is the director of the Key Laboratory of Environmental Pollution Monitoring and Disease Control, Ministry of Education and Guizhou Health Development Research Institute, Guizhou Medical University. She is the provincial management expert and outstanding teacher in Guizhou Province. Her main research interests focused on environmental toxicology and pathogenesis of endemic arsenism. She has hosted more than 40 scientific research grants, which include 1 key program and 9 general programs of National Natural Science Foundation of China. She was chief editor, deputy editor or co-editor in the compilation of 15 textbooks and monographs. She has published more than 300 peer reviewed journal articles. She was a recipient of 8 provincial awards on science and technology.</p>		