

## Robert J. Andres



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Robert J. Andres has been a senior research and development staff member in the Environmental Data Science and Systems group at ORNL since 2006. He received a BS in geology and an MS in geochemistry from the New Mexico Institute of Mining and Technology in 1986 and 1988, respectively, and a PhD in geology from the Michigan Technological University in 1992. He has served as a professor at the University of North Dakota and the University of Alaska-Fairbanks. Andres has taught undergraduate classes in general chemistry, mineralogy, and global change, as well as graduate level courses in remote sensing, volcanology, and air pollution management.

Andres' research interests include anthropogenic carbon dioxide emissions; climate change; remote sensing of emissions; volcano-climate interactions at local, regional and global scales; geochemistry (including isotopes) of volcanic gases and aerosols; plume-atmosphere dynamics; and instrument development for atmospheric monitoring. His work on these topics has been published in preeminent chronicles such as the Journal of Applied Meteorology and Climatology, Geophysical Research Letters, the Journal of Geophysical Research, Tellus, Atmospheric Environment, and Global Biogeochemical Cycles.

Andres is currently a member of a number of professional organizations and commissions including the American Geophysical Union, the Geological Society of America, and the International Association of Volcanology and Chemistry of the Earth's Interior.

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