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Research Interests

- Statistics and Data Analysis in Geology and Environmental Chemistry
- Environmental Forensics
- Source, Fate, and Transport of Persistent Organic Pollutants
- Biostratigraphy and Paleocology
- Crude Oil Chemical Fingerprinting

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Glenn W. Johnson, PhD

RESEARCH ASSOCIATE PROFESSOR

Glenn Johnson joined EGI in 1995 and is a Research Associate Professor. He earned his M.Sc. in Geology at the University of Delaware and his Ph.D. in Geology at the University of South Carolina.

Dr. Johnson has over 30 years' experience in environmental chemistry, petroleum geochemistry, statistics and data analysis, and micropaleontology/biostratigraphy. Dr. Johnson spent seven years in environmental consulting, where he worked on numerous environmental site assessment and remediation projects under a number of state and federal regulatory authorities. He holds faculty appointments in the Department of Geology & Geophysics and the Department of Civil & Environmental Engineering. Dr. Johnson frequently consults, and has served as an expert witness in a number of environmental litigation matters involving multivariate statistics and environmental chemistry.

Environmental Forensics/Chemistry

Dr. Johnson's environmental expertise is in the area of environmental forensics, with a particular focus on multivariate statistical analysis of chemical data and sources, fate and transport of PCBs, polychlorinated dibenzo-p-dioxins and dibenzofurans (PCDD/F), and polycyclic aromatic hydrocarbons (PAH). He has conducted research at EGI which has been sponsored by the U.S. Environmental Protection Agency (EPA), Agency for Toxic Substances & Disease Registry (ATSDR), Department of Defense, Environmental Security Technology Certification Program (ESTCP), as well as by industry sponsors. He has conducted environmental chemical fingerprinting studies in more than 15 states and several countries.

Biostratigraphy/Micropaleontology

Dr. Johnson has been involved with the Technical Alliance for Computational Stratigraphy (TACS) at EGI, since its inception in 1997. His primary duties have been related to algorithm development, prototyping, and deployment of TACSWorks – a biostratigraphy workstation software package for micropaleontologists working in the oil & gas industry. He has also been involved in software design and implementation/publication on demonstration data sets from the Gulf of Mexico and North Sea.

Petroleum Geochemistry

Dr. Johnson has collaborated with EGI petroleum geochemists on a number of projects where multivariate statistical methods have been applied to crude-oil petroleum geochemical data, for purposes of oil fingerprinting, petroleum systems analysis, and reservoir compartmentalization evaluation. He has collaborated on multiple oil fingerprinting projects at EGI in a number of regions, including the Caspian Sea, Persian Gulf states, and the Gulf of Mexico.