



RESEARCH ASSOCIATE PROFESSOR

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Glen Johnson

PROFESSIONAL RESEARCH INTERESTS AND EXPERTISE –

- Environmental Forensics. Development and application of pattern recognition methods for determination of contaminant sources and alteration processes in complex environmental systems.
- Source, Fate and Transport of Persistent Organic Pollutants. Study of natural alteration and attenuation processes that affect dibenzo-p-dioxins, dibenzofurans, polychlorinated biphenyls and polycyclic aromatic hydrocarbons.
- Biostratigraphy and Paleocology. Application of quantitative and graphical methods applied to micropaleontological data

REGIONAL AND BASIN EXPERIENCE –

- Environmental (Chemical Fingerprinting): San Francisco Bay
- Lake Hartwell, South Carolina
- Grenada, Mississippi
- Crystal Springs, Mississippi
- Newark Bay, New Jersey
- San Diego Harbor, San Diego, California
- Akwesasne, New York

EDUCATION –

- 1982 B.M. in Music Education. East Carolina University, Greenville, North Carolina
- 1985 B.S. in Geology, East Carolina University, Greenville, North Carolina.
- 1988 M.S. in Geology, University of Delaware, Newark, Delaware. Thesis: Pleistocene Planktonic Foraminiferal Biostratigraphy and Paleocology - Northeast Gulf of Mexico.

- 1997 Ph.D. in Geology, University of South Carolina, Columbia, South Carolina, Dissertation: Application of Polytopic Vector Analysis to Environmental Geochemistry Investigations

MEMBERSHIPS –

- International Society of Environmental Forensics
- Society of Environmental Toxicology and Chemistry

PUBLICATIONS –

- **Johnson, G.W.**, Hansen, L.G., Hamilton, M.C., Fowler, B., and Hermanson, M.H. 2008. PCB, PCDD and PCDF congener profiles in two types of Aroclor 1254. *Environmental Toxicology & Pharmacology*. 25: 156-163.
- **Johnson, G.W.**, Ehrlich, R., Full, W., and Ramos, S. (2007). Chapter 6: Principal components analysis and receptor models in environmental forensics. In: *An Introduction to Environmental Forensics*. 2nd Edition. (R. Morrison and B. Murphy, eds.). Elsevier. Amsterdam. pp. 207-272.
- **Johnson, G.W.**, Quensen, J.F., III, Chiarenzelli, J., and Hamilton, C. (2006). Chapter 10: Polychlorinated Biphenyls. In: *Environmental Forensics: A Contaminant Specific Guide* (R. Morrison and B. Murphy, eds.). Elsevier. Amsterdam. pp. 187-225.
- Magar, V.S., **Johnson, G.W.**, Brenner, R., Durell, G., Quensen, J.F., III, Foote, E., Ickes, J.A., Peven-McCarthy, C. 2005. Long-term recovery of PCB-contaminated sediments at the Lake Hartwell Superfund Site: PCB Dechlorination I – End-Member Characterization. *Environ. Sci. Technol.* 39: 3538-3547.
- Gary, A.C., **G.W. Johnson**, D.D. Ekart, E. Platon, and M.I. Wakefield. (2005). A Method for Two-Well Correlation using Multivariate Biostratigraphical Data. In: *Recent Developments in Applied Biostratigraphy*. (A.J. Powell & J.B. Riding, Eds). The Micropaleontological Society Special Publication. pp. 205-217. Micropaleontological Society. London
- DeCaprio, A. P., **Johnson, G. W.**, Tarbell, A. M., Carpenter, D. O., Chiarenzelli, J. R., Morse, G. S., Santiago-Rivera, A. L., Schymura, M. J., and Akwesasne Task Force on the Environment. 2005. PCB exposure assessment by multivariate statistical analysis of serum congener profiles in an adult Native American population. *Environ. Res.* 98, 284-302.