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Hydro-Bio-Geo-Chemistry

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Abstract:
Principles regarding soil, sediment and groundwater contamination not taught in colleges or Universities. This is achieved through a visually driven and interactive presentation approach in which the audience learns water is not H2O, what really affects contaminant solubility, and the important role of contaminant sorption in soil, sediments, and groundwater and how this all forms of remediation including bioremediation. Attendees with limited chemistry, biochemistry, or microbiology experience will lean a new 'easy to use' set of principles to accurately predict the behaviour and solubility of most contaminants in soil, sediments, and groundwater, how to change the properties of water, and how to improve contaminant solubility to increase its Physical, Chemical and Biological Availability for in-situ and ex-situ remediation.

Biography

George (Bud) Ivey, B.Sc., CES, CESA, P.Chem. EP, is the President and Senior remediation specialist with Ivey International Inc. He earned his B.Sc. in Organic Chemistry in 1987, at the University of New Brunswick (Fredericton, Canada), after which he completed continued studies in Geotechnical Engineering before commencing his environmental career. He later received a Masters Certification in Project Management, at St. Mary's University (Halifax, NS) in 2001. His career in the environmental field has spanned more than 25 years with him working on over 1500 international projects. His experience includes: applied research and development, site assessments, investigations, remediation, environmental impact assessment, risk assessment, computer modelling, system design, teaching/lecturing, to being an expert witness. His career is marked by many accomplishments including his being granted several environmental technology patents, and being honored with several international awards including: The Globe Award, North American Frost & Sullivan Award, Two Environmental Business Journal Awards, Roy F. Weston Award, and MISTIC Environmental Excellence Award. He is currently working on several remediation internationally projects, conducts applied research to develop, and often gives guest lectures and workshops at Universities and with private agencies.