

Environmental Group Monthly Presentation:

“Hydraulic Fracturing – Flowback Water and Produced Water Management”

Thursday, February 28, 2013 at 7:30 p.m.

Fred P. Reinhard, Ph.D.

Principal Technologist, FPR International, Mission Viejo, CA

Presentation Abstract:

Hydraulic Fracturing operations create large quantities of contaminated water, known as “Produced Water”. In most hydraulic fracturing applications, produced water has to be treated and/or managed for potential reuse, or compliant discharge or disposal. Depending on the location of the well site, the well formation, and the productivity of the well, generated volumes of produced water can be 3 to 6 million gallons per well. Produced water typically is high in suspended and dissolved solids, and contains various inorganic and organic chemicals that have accumulated in the water during the fracking process. This presentation discusses water and chemicals used for hydraulic fracturing, composition of frac water and flowback water, and typical treatment options and management of produced water.

Speaker Biography:

Dr. Reinhard is a senior principal technologist at FPR International, with over 30 years of experience in process development and process design/build of liquid and solid waste treatment and recycling systems. His work focuses on development of mainly industrial wastewater and solid waste treatment and recovery processes, pilot testing, design/build of systems and plants, commissioning, startup and troubleshooting of the treatment systems. He has a Ph.D. in chemical engineering from the Technical University of Berlin, Germany.

Location:

Kennedy/Jenks Consultants
Conference Hall
2355 Main St., Suite 140
Irvine, CA, 92614

To Register or for more information, contact

Limited to first 25 with reservations E-mail reservations to Ganesh Rajagopalan
RGanesh@KennedyJenks.com by February 26th.