

The Washington DC Section of SME proudly presents

John Richardson – Rare Earths for Phosphate Recovery

Phosphate is an essential nutrient for agriculture but can also be a pollutant when it enters a water source. Phosphate in water systems can originate from either point source or non-point source and is regulated in many states. Conventional phosphate removal technology relies on Ferrous or Aluminum compounds which precipitate phosphate sludge so that it can be removed from an aqueous stream. These processes can be capital intensive and expensive to operate. New technology has been developed which utilizes rare earths as a method for phosphate removal. These new processes have shown the potential to selectively remove phosphate and create a renewable recoverable stream of phosphate.

- Date:** Tuesday – April 12, 2016
Time : Social Hour 11:30 - 11:50 am
Section Business/Luncheon 12:00 - 1:30 pm
Location: Clyde's Restaurant at Tyson's Corner
8332 Leesburg Pike, Vienna, VA 22182
Choice: Roasted Chicken, Salmon, or Vegetarian Ravioli
Cost: \$27 for DC Section Members; \$32 for guests
RSVP: Please reply by email to **George K. Schuler** at
gkschuler@verizon.net by noon April 11, 2016



About the Speaker

John Richardson is Senior Innovation Fellow for ChemTreat Inc. John has 30 years of experience in Industrial water treatment. Prior to ChemTreat John worked for W.R.Grace Dearborn in Europe, North and South America in a variety of customer support and research leadership roles. John has been a key researcher at ChemTreat for 20 years and has been instrumental in building a first class research capability, staffed with industry and application experts. John has developed new high performance scale inhibitors, novel corrosion inhibitors and several key technologies for monitoring functional chemistry in water treatment systems. John is a recognized industry expert in water treatment for mining operations. John has a Bachelor's degree in Chemistry and a Master's and Ph.D in Metallurgy and Materials Science from Nottingham University, UK.