

INDUSTRY TECHNICAL SEMINARION SERIES

Primary Carbon

Secondary Carbon

With Dr. Zac Hildenbrand & Dr. Kevin Schug

PRODUCED WATER

Join Advanced Laboratory Solutions
Consulting and our partners at Medusa
Analytical for the first of our online **Industry Technical Seminar Series** where we highlight leading advances seen and technical challenges faced within the hottest new industries. Our series begins with a Produced Water seminar led by Dr. Zac Hildenbrand and Dr. Kevin Schug.



January 17, 2024

9:00am - 12:00pm CST 12:00pm - 1:30 pm Lunch Panel 1:30pm CST - 4:00pm

Seminar attendees who submit questions before or during the seminar will be entered into a raffle drawing.

SEMINAR FEE: \$200

You Will Learn:

- Geographical assessment of U.S. shale basins
- Treatment Modalities for Produced Water; beneficial re-use.
- Analytical Techniques for Produced
 Water Characterization
- Lunch Panel: Emerging Topics (e.g. seismicity, regulations)
- Mining Produced Water for value; critical metals and minerals.
- Case Studies: research on treatment of Produced Water

MEET THE INSTRUCTORS

Our team of experts have extensive experience in analytical chemistry analysis, forensic chemistry, environmental toxicology and remediation, pharmaceutical chemistry, petroleum and petrochemical chemistries, alternative energy including plastics chemical recycling analysis, and regulatory compliance across various industries.



Zacariah L. Hildenbrand is a partner of Medusa Analytical, is a Research Professor at The University of Texas El Paso, is a co-founder and affiliate of the Collaborative Laboratories for Environmental Analysis and Remediation (CLEAR) at The University of Texas Arlington, and is a director of the Curtis Mathes Corporation (OTC:TLED). Dr. Hildenbrand's research has produced more than 60 peer-reviewed scientific journal articles and textbook chapters.

Dr. Hildenbrand is regarded as an expert in point source attribution and has participated in some of the highest profile oil and gas contamination cases across the United States. Dr. Hildenbrand has also consulted several private sector clients on various water treatment and hydrocarbon capturing technologies. A former collegiate golfer at The University of Texas El Paso, he stayed to complete his Ph.D. in Biochemistry before a post-doctoral fellowship at The University of Texas Southwestern Medical Center. When he is not busy with his young family, he remains an avid golfer and is always looking for a new course or challenging opponent.

Kevin A. Schug is Professor and Shimadzu Distinguished Professor of Analytical Chemistry in the Department of Chemistry and Biochemistry at The University of Texas Arlington (UTA). He is also co-founder and Director of the Collaborative Laboratories for Environmental Analysis and Remediation (CLEAR) at UTA. Dr. Schug received his B.S. degree in Chemistry in 1998 from the College of William & Mary, and his Ph.D. degree in Chemistry from Virginia Tech in 2002 under the supervision of Prof. Harold M. McNair. From 2003-2005, he performed post-doctoral research in the laboratory of Prof. Dr. Wolfgang Lindner at the University of Vienna in Austria.

His research has spanned biological, biochemical, clinical, energy and environmental, flavor and fragrance, food science, forensic, pharmaceutical, and natural products analytical determinations. Dr. Schug has served as expert witness in numerous forensics, environmental, and patent legal cases. He is also served as an expert in litigation associated with oil and gas waste characterization and recycling technologies. Most recently, he was names to The Analytical Scientist magazine's "Power List" that name the top 100 most influential analytical scientists in the world. In his spare time, Dr. Schug enjoys home renovation, cheering on his three sons, and smoking various hunks of meat.



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