

## TRAINING / WORKSHOP SESSIONS, April 10

### **Modernization of Collection and Preparation Techniques in Organic Analyses - PDHUs**

**J.D. Gentry:** (Technical Director, ESC Lab Sciences) J.D. Gentry is the Technical Director for ESC Lab Sciences and has been part of their team for 13 years. J.D. supervises the quality assurance team and is involved in implementation of new methods, method updates, internal and external audits, safety, waste disposal, new technology research and instrument repair. He oversees day to day laboratory quality and accuracy concerns to ensure method requirements are met.

J.D. Gentry began working in the sample preparation lab, at ESC Lab Sciences, in 2001 during his final semester in college. Upon completion of his chemistry degree from Western Kentucky University he was hired as a full time chemist. Prior to becoming Technical Director, JD held several positions including chemist, senior chemist, air laboratory manager, night shift supervisor, and volatile organics manager. During this time, he planned and developed the air analysis laboratory at ESC and has extensive experience in numerous organic methods. New method development and analytical instrument repair has always been his primary interest and is the lab activity that he enjoys the most.

### **Single Tube Sampling and Analysis of Volatile and Semi-Volatile Organics in Air - PDHUs**

**Mary Christie:** (Market Specialist, Pace Analytical Services, Inc.) Mary Christie currently serves as a Market Specialist in the Specialty Analytical Services Group for Pace Analytical Services, Inc.

Pace is the 2nd largest laboratory services company in the US with a nationwide network of 20 laboratories and 21 service centers. Pace provides analytical services for a diverse client base and provides a wide range of specialty analyses including air toxics, vapor intrusion, dioxins/furans, biological tissue, and radiochemistry.

Mary has been with Pace since 2004 and was affiliated with other environmental laboratories prior to that. She has a B.S in Chemistry from University of Wisconsin-Stevens Point.

### **"Aroclor Extraction and Analysis" An Overview of Key Factors for Data Users to be Aware of - PDHUs**

**Raymond Riden:** (Technical Director, Test America Inc. North Canton Laboratory) Raymond Riden currently is the Technical Director for the Test America North Canton laboratory, and serves as a technical resource for the laboratory and client base. He is also involved in research, development, and implementation of new methods and technologies. Ray has been with Test America since 1992, and has held previous positions as an analytical chemist, Organics Manager, and Operations Manager for the North Canton facility.

Ray has a B.S. in Biology and Minor in Chemistry from Walsh University. Ray has extensive expertise in arochlor analysis, interpretation, and challenging matrices.

### **Brownfields: Asbestos Burying Grounds - PDHUs**

**Frank Ehrenfeld:** (Laboratory Director, IATL) Frank Ehrenfeld, Laboratory Director for international Asbestos Testing Laboratories since 1992, oversees over 50 scientists and support team at the commercial environmental and materials testing laboratory in New Jersey. Mr. Ehrenfeld has an extensive educational background and strong application experience in academic, industrial and commercial analytical microscopy laboratory environments, specializing in the characterization of materials using diffraction and microanalysis techniques. Under his care, IATL has repeatedly demonstrated excellence in analytical approach. Mr. Ehrenfeld is involved in all aspects of the technical operations of IATL. He is active as a member of several industry organizations including as Chairman of ASTM D22.07 Asbestos Sampling and Analysis, AIHA's Analytical Accreditation Board and their Technical Advisory Panel. He has been an advisor to several occupational and public health institutions and for local and international governments. He continues to present at conferences and publish in various journals and is the co-editor for ASTM's Asbestos Control Manual 3<sup>rd</sup> Edition. Frank has a B.S. Chemistry/Biology at West Chester University, 1984, graduate degrees in Materials Science and Engineering at Lehigh University, and in Industrial Hygiene at Temple University School of Civil Engineering.

### **The Science of Persulfate Activation - PDHUs**

**John Valkenburg:** (Senior Engineer and Technical Sales Manager , PeroxyChem) has more than 25 years of industry experience, including 5 years as an environmental chemist and 16 years in environmental consulting. For the past 8 years, he has been with PeroxyChem as a Senior Engineer and Technical Sales Manager (which was recently divested from FMC). John is a graduate of the University of Illinois. He and his wife have a dog, two cats, and 2-1/2 horses.

### **Addressing Residual LNAPL with Persulfate - PDHUs**

**Larry Kinsman:** (Principal, ORIN Remediation Technologies, LLC) Larry Kinsman is an owner of ORIN Remediation Technologies, LLC., a contractor based in Verona, WI, specializing in ex-situ and in-situ chemical treatments. Larry has numerous years of experience as a geologist and hydrogeologist in marketing, project development, design, cost estimation, field supervision, and technical support of environmental remediation projects. Larry has also been involved in training regulatory agencies and foreign governments on numerous subjects including remediation technologies and treatment chemistries. Larry was part of the Interstate Technology and Regulatory Council (ITRC) that developed the original technology/regulatory guidance documents for the in-situ chemical oxidation of soil and groundwater. ITRC is a state-led coalition that works together with industry and stakeholders to achieve regulatory acceptance of environmental technologies.

Larry earned a Bachelor of Science Degree in Environmental Geology and Earth Resources at the University of Wisconsin-Eau Claire in 1995. Larry has assisted in the development of treatment chemistries used for the destruction of organic and inorganic contamination. As a result of this work, Larry has been awarded multiple patents pending for the development of chemistries to serve the environmental remediation sector as well as the oil and gas industry.

### **Conducting Site Characterization with Incremental Sampling Methodology (ISM): Practical Applications for Representative and Defensible Decision-Making – PDHUs**

**Diane Crawford,** Associate and Senior Environmental Scientist, Golder Associates Inc.

Diane Crawford currently manages environmental site characterizations and remediation projects under CERCLA and RCRA compliance, as well as state-overseen regulated and voluntary cleanup programs as a consultant with Golder Associates Inc. Ms. Crawford's expertise includes developing and implementing creative and strategic sampling designs for all environmental media that are statistically sound to enable defensible decisions to be made. Ms. Crawford utilizes the data quality objectives process, incremental sampling methodology (ISM), and other sampling design techniques to optimize sampling plans toward the site project goals. Ms. Crawford is well versed in conducting remedial actions, engaging with the community and individual property owners, working cooperatively with regulatory agencies, and coordinating complex project budgets, schedules, and remedial strategies.

Ms. Crawford has over thirty years of experience in site characterization, regulatory compliance, risk assessment, and environmental remediation. She has received extensive training in ISM approaches to environmental characterizations. She has a degree in environmental science from the State University of New York at Plattsburgh.

**Barbara K. Nielsen,** Manager, Remediation Projects, Freeport-McMoRan Copper and Gold

Barbara Nielsen is the Manager of Remediation Projects for Freeport-McMoRan Copper and Gold, Phoenix, Arizona. Through acquisition, Freeport-McMoRan has over a 100 year legacy in the mining industry. Ms. Nielsen is currently working on remediation of numerous legacy sites across the United States. She is a Graduate of the South Dakota School of Mines and Technology with a bachelor of science degree in Geological Engineering. She has over 28 years of permitting, characterization, and remediation experience with RCRA, CERCLA, and non-hazardous waste sites. Before joining Freeport she was a consultant with RESPEC for 12 years and a regulator for 7 years prior to that.

## **ISM Case Studies: Using Project Objectives to Select Laboratory Processing Options – PDHUs**

**Mark Bruce** is a Corporate Technical Director for TestAmerica.

He has experience in environmental monitoring including sample preparation and analysis since 1979. He has participated in the development of several EPA methods. He has worked with incremental sample processing techniques since 2003. He has been active on the ITRC Incremental Sampling Methodology team since it started in 2009 and particularly involved with the development of the laboratory guidance. Dr. Bruce earned a Ph.D. in Analytical Chemistry from the University of Cincinnati in 1984.

**Diane Jones** is the Subsampling Program Manager for TestAmerica-Canton.

Diane Jones currently serves as the Subsampling Program Manager at TestAmerica's Canton location and is responsible for overseeing ISM and pre-prep operations. She has been in this position since 2007.

Ms. Jones has a bachelor's degree from Miami University in Oxford, Ohio and has had extensive training and experience with ISM laboratory processes.