

## Technology Transfer Workshop

### Hosted by the U.S. EPA Natural Gas STAR Program

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# Speaker Bios

## **Roger Fernandez**

Team Leader

Natural Gas STAR Program

U.S. EPA Climate Change Division

Roger Fernandez is the Team Leader of the U.S. EPA Natural Gas STAR Program. Gas STAR is a flexible, voluntary partnership between U.S. EPA and the oil and natural gas industry that works to identify and promote the implementation of cost-effective technologies and practices to reduce emissions of methane, a potent greenhouse gas. Prior to joining Gas STAR, as a Mike Mansfield Fellow, Roger worked at the Japanese Ministry of Environment and the Japanese Ministry of Economy, Trade and Industry in Tokyo, Japan from 2000 – 2002. From 1996 – 2000, Roger worked with the coal industry to implement methane capture projects on the U.S. EPA Coalbed Methane Outreach Program. Roger graduated from Michigan State University in 1992.

## **Robert Harriss**

Environmental Defense Fund

Robert Harriss is a Senior Scientist at the Environmental Defense Fund. He is also a Distinguished Fellow at the Houston Advanced Research Center and holds adjunct professorships at Texas A&M–Galveston and the Department of Earth & Atmospheric Sciences at the University of Houston. Other career positions have included Senior/Project Scientist at NASA Langley Research Center and Director of Earth Sciences at NASA Headquarters, and faculty positions at Florida State University and the University of New Hampshire. His current EDF responsibilities and research are focused on quantifying fugitive methane emissions from the U.S. natural gas system.

## **Doug Jordan**

Southwestern Energy

Doug Jordan is the Corporate Environmental Program Manager for Southwestern Energy in the company's V+ Resources department. He has over 28 years of environmental experience including agency, consulting and industry experience. He has been actively involved with the EPA Natural Gas STAR program for almost 20 years. As an EPA Natural Gas STAR participant, Doug was an active member of the initial Tennessee Gas Pipelines EPA NG STAR group, led El Paso Production and Processing EPA Natural Gas STAR initiatives, and spearheaded Gulf Terra's Natural Gas STAR program when Gulf Terra was recognized as EPA NG STAR Processing Partner of the year in 2004. He currently serves as the Implementation Manager for SWN's EPA Natural Gas STAR program and was a recipient of the EPA's Natural Gas STAR Production Partner of the Year award in 2011.

## **Dr. Leonard Nelms**

Tetra Tech, Inc.

Dr. Nelms has over 37 years environmental experience and has worked in all media and in most industry sectors as a consultant. He has also worked as a consultant to state and federal governmental agencies and provided on-site operations support to the EPA's Combustion Research Branch in Research Triangle Park, NC. His primary work area has been in air-related issues in the oil and gas and petrochemicals sector. He is currently supporting upstream, mid-stream, and downstream clients with regulatory compliance matters, including permitting and compliance assessments for oil and gas production and transmission facilities as well as the EPA's Natural Gas STAR initiative. Dr. Nelms holds a Bachelor of Science in Chemistry degree from the

University of Georgia, a Master's degree in Analytical Chemistry from the University of North Carolina-Chapel Hill, and a Ph.D in Analytical Chemistry from Louisiana State University.

**Dr. Chris Rella**

Picarro, Inc.

Chris Rella has a Ph.D. in Physics from Stanford University (1996), and a B.S. degree in mathematical physics from Case Western Reserve University (1990). He has worked extensively over the past 17 years in the fields of laser physics, laser-based spectroscopy, and atmospheric physics, both at academic institutions and in industry. He has spent the last 13 years at Picarro, Inc., a start-up company that builds optical-based chemical sensing instrumentation for scientists and industry. He has held the positions of Director of Product Development, Director of Engineering, Director of Customer Service, and Director of Research and Development. Since 2011, Chris has held the position of Picarro Research Fellow. In this scientific role, his primary area of research is in the development of emissions quantification technologies, on the scale of single facilities, cities, or regions, using a variety of measurement technologies, including high-precision mobile measurements and stable isotope analysis.

**Larry S. Richards**

HY-BON Engineering

Larry Richards joined HY-BON in 2003 as the company's president. The company focuses on the capture and control of low pressure gas streams that are typically either vented or flared from upstream oil and gas operations. HY-BON has successful vapor recovery and vent gas management programs in every oil producing region of the U.S., and over 35 countries. Prior to joining HY-BON, Mr. Richards served as the Vice President of Operations Support for Key Energy, and several executive roles at Continental Emsco Company in Houston.

Mr. Richards has published multiple articles on vapor recovery, infrared leak detection, casinghead pressure reduction and methane gas capture technologies in industry periodicals including World Oil, American Oil & Gas Reporter, PB Oil & Gas, and others – and is a lead technology speaker for vapor recovery projects for the Natural Gas STAR Program, the Global Methane Initiative and the World Bank's Global Gas Flare Reduction Initiative. He lives in Midland, TX with his wife of 24 years and two sons, and is a graduate of Texas A&M University.

**Gordon "Reid" Smith**

BP

Reid is a Senior Air Quality and Greenhouse Gas Advisor in BP's Corporate Environment Group. Over 33 years of oil and gas industry experience with a broad spectrum of senior roles in the environmental discipline with most of this time in the E&P segment. Reid has a lead role in BP's green house gas and emissions management strategy and programs and has been an active participant in the World Bank's - GGFR program and EPA's Natural Gas STAR/GMI program for many years. Reid holds Bachelors of Science degrees from Utah State University.

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