

# 37<sup>th</sup> Annual Energy and Environmental Training and Education Conference Program

*Sponsored by the ASQ Energy and Environmental Division*

Location: *Omni San Antonio Hotel at the Colonnade*

Dates: **October 31 - November 3, 2010**

**Sunday Evening, October 31 - Reception**

## **Monday, November 1<sup>st</sup>**

### **8:00 a.m. Kickoff**

Conference Chair: **Tom Mudge**

Division Chair: **Ben Marguglio**

### **8:15 a.m. Keynote Speaker: Dale Klein, Ph.D., P.E.**

Dr. Klein is currently the Associate Director of The Energy Institute and Associate Vice President for Research at The University of Texas at Austin. He previously served as Chairman of the Nuclear Regulatory Commission and, prior to joining the NRC, Dr. Klein served as the Assistant to the Secretary of Defense for Nuclear and Chemical and Biological Defense Programs.

### **9:30 a.m. Break** (in the Exhibit area)

### **10:00 a.m. Concurrent Sessions**

#### **M11 Topic – “Overcoming the Challenges of New Nuclear Construction at Vogtle”**

Vogtle Units 3 and 4 are the most advanced of the current Nuclear Renaissance projects. The project has completed excavation and is currently performing soil compaction. As the leader of the new build projects, the project has experienced a lot of First-of-a-Kind activities in the new nuclear plant construction era. This presentation will discuss those experiences.

*Speaker - John Giddens (Southern Company)*

#### **Topic – “Challenges Encountered During the Crystal River Containment Repair Project”**

During a recent Steam Generator replacement at the Crystal River Plant, it was determined that there was a significant cracking problem with the containment vessel. This presentation will discuss the challenges in this first-of-a-kind repair project.

*Speaker – Ed Avella (Black Diamond Services)*

#### **M12 Topic – “ISO 19011 Update”**

In late 2007, the International Organization for Standardization (ISO) determined that ISO 19011:2002, *Guidelines for Quality and/or Environmental Management Systems Auditing*, should be revised and should have its scope expanded to encompass additional management systems. The expanded scope would include occupational safety and health, food safety, information systems security, ships and maritime systems, and others as applicable. Accordingly, ISO formed a Working Group of experts in the spring of 2008 to undertake this revision process.

The revision process is nearing completion and final approval and publication of the revised Standard is expected in early summer 2011. This presentation will summarize the progress made by the Working Group, U.S. concerns and their resolution during the revision process, and the expected path forward to completion.

*Speaker – Gary Johnson (Environmental Protection Agency)*

#### **Topic – “ISO 9000 & 14000 Update”**

This presentation will summarize the progress made by the Working Group, U.S. concerns and their resolution during the revision process, and the expected path forward to completion.

*Speaker – Terrell Horne (Consultant)*

#### **M13 Topic – “Quality Management Issues in Shale Gas Production”**

Quality Management issues that have emerged for shale gas include consistent estimation of resources and production profiles, finding and development costs, management of water issues both for production and waste-water disposal and response to public concerns about possible ground movements and gaseous hydrocarbon emissions around shale-gas wells. Therefore, the rapid growth of shale-gas production offers numerous examples where an integrated quality management system can offer benefits in several different areas, not the least of which are economic forecasts, discrepancy resolution and customer or stakeholder satisfaction.

*Speaker – James Gooding (Black and Veatch)*

Topic – “Wind Energy Challenges”

*Speaker – Gene Cuenot (Vestas Nacelles)*

**11:30 a.m. Lunch Speaker: Eric Knox (URS) “What’s Happening at Yucca Mountain?”**

**1:00 p.m. Concurrent Sessions**

M21 Topic – “A Status of QA Programs in DOE”

*Speaker - Colette Broussard (DOE)*

Topic – “A Status of QA Implementation in DOE (based on 3 year assessments)”

Mr. Moseley has performed a number of assessments of the DOE across the complex. This presentation will discuss areas of nonconformities, emerging areas of potential problems and quality challenges for the future. It will also identify what has changed and what remains the same.

*Speaker – Chuck Moseley (Consultant)*

Topic – “Status of Energy Facility Contractors Group QA Efforts”

This presentation will discuss the EFCOG QA Task Team initiatives, including the Supply Chain Joint Audit Program, procedures, resources, database, performance indicators, software quality control and work packages, and implementation of NQA-1 across the DOE complex.

*Speaker – Mike Mason (Bechtel)*

M22 Topic – “Detecting Fraudulent Counterfeit Items – Best Practices”

*Speaker – Marc Tannenbaum (EPRI)*

Topic – “The Supply Chain Quality Imperative: Quality Assurance for the Supply Chain”

This presentation will focus on the necessity for absolute control of the supply chain. To assure quality and preclude the introduction of Counterfeit, Suspect or Fraudulent Items into the supply chain, it is imperative that the nuclear industry monitor and control the supply chain unlike anytime in the past.

*Speaker – John McGlenn (EMNS, Inc.)*

M23 Topic – “Water EPC Quality – The Complexity of International Requirements”

This presentation provides an overview of the highly complex nature of quality requirements and regulations the Water EPC providers must address to ensure they can compete in the market. For a globally based EPC firm, quality requirements vary from nation to nation as well as within national territories. This presentation will provide examples of the requirements that must be met in a number of national environments to ensure a sustainable model and achieve market share growth.

*Speaker – David Cole (Black and Veatch, Water Division)*

**2:30 p.m. Break** (in the Exhibit area)

**3:00 p.m. Concurrent Sessions**

M31 Topic – “ASME Certification of NQA-1 Suppliers”

ASME is developing a program for the certification of NQA-1 suppliers, beyond those involved with ASME Code stamp activities. This presentation will discuss this new program.

*Speaker – John Adkins (Southern Company)*

Topic – “Challenges for Obtaining an ASME III N Stamp for the First Time”

VALV Technologies recently obtained their ASME III N Stamp. This presentation will discuss the experiences and Lessons Learned from that effort.

*Speaker – Bill Henwood (VALV Technologies)*

M32 Topic – “Quality in the Laboratory Environment”

*Speaker – Tom Trbovich (SWRI)*

M33 Topic – **“Peer Review Practices for Environmental Projects”**

Peer reviews are common in science and engineering and reflect the long-standing practice of critical, independent review of technical, often original work. Peer reviews are particularly important for original treatment strategies and project designs; data analyses and interpretations; assessments of data quality objectives such as impacts of outlying quality control data and incomplete data sets; and overall study conclusions.

This presentation examines peer review models and practices, focusing on the needs of environmental projects, with added emphasis on the needs of one-of-a-kind and first-of-a-kind activities.

*Speaker – David Elam (Summa Consultants)*

Topic – **“Creating an Effective Quality System for EPA Research and Development”**

The creation of an effective quality system for the research and development sphere presents a special challenge for quality practitioners. Even though there are clear parallels between the philosophy of quality and the scientific method, those tasked with applying a quality system to the work of scientific researchers face both technical and cultural hurdles. This presentation describes the successes and lessons learned from more than a decade of quality system development and implementation in support of the US EPA Office of Research and Development.

*Speaker – Kevin Hull (Neptune and Company)*

**4:30 p.m. Committee meetings**

**Women in Quality Discussion Group**

**Tuesday, November 2<sup>nd</sup>**

**8:00 a.m. Keynote Speaker: Richard Rasmussen (Nuclear Regulatory Commission)**

**9:30 a.m. Break** (in the Exhibit area)

**10:00 a.m. Concurrent Sessions**

T11 Topic – **“Nuclear Energy Institute 2010 initiatives”**

*Speaker – Mark Harvey (NEI / UniStar)*

Topic – **“Institute on Nuclear Power Operations 2010 Initiatives”**

*Speaker – Jim Maddox (INPO)*

T12 Topic – **“Approach to Successful Implementation of Unique Activities (in a first/one-of-a-kind facility)”**

The Central Characterization Project (CCP) is tasked with characterizing and certifying transuranic (TRU) waste for disposal at the Waste Isolation Pilot Plant (WIPP). The presentation will discuss project experiences and their approach to planned and “unplanned” unique events.

*Speaker – Catherine Nesser and Val Cannon (URS)*

Topic – **“Mountain Plant Carbon Capture and Sequestration Demonstration Project”**

This presentation will discuss the quality related techniques used for project management and for the risk identification, control and mitigation of a process designed for the carbon capture and sequestration (CCS) of a coal plant’s flue gas stream. A first time evolution, the demonstration was designed to capture and store up to 90% of the carbon dioxide of a 20 megawatt slip stream of flue gas. The project is in service.

*Speaker – Ronald Young (American Electric Power)*

T13 Topic – **“The Solar Solution”**

This presentation will examine the benefits of pursuing solar energy as a solution to challenges in the areas of energy supply, climate change, environmental protection, and national security. The presentation will also examine current barriers to implementation of the solar solution and models for eliminating those barriers.

*Speaker – Lanny Sinkin (Solar San Antonio)*

**11:30 a.m. Lunch Division Business Meeting**

### 1:00 p.m. Concurrent Sessions

#### T21 Topic – “Operational Readiness Challenges and Lessons Learned”

The National Enrichment Facility located in Eunice, NM recently received NRC approval to start enrichment operations. This presentation will discuss the challenges encountered and overcome along the way.

*Speaker – Piet Van der Heide (Enrichment Technology, US)*

#### Topic – “Uniform Federal Policy for Quality Systems and QA Project Plans”

*Speaker –Walt Helmick (Environmental Protection Agency)*

#### T22 Topic – “ITER (Fusion Tokamak Reactor) Project QA Approach”

The 500 MW ITER Tokamak is a dramatic scale-up in size and power from all fusion reactors previously built. The ITER Project puts together the science, engineering, and industrial efforts of seven countries that include half the world's population. The quality assurance program to be discussed is a key to achieving the required nuclear license for the plant that will complete the fusion science and engineering foundation to allow industrial deployment of fusion electric plants by mid-21<sup>st</sup> century.

*Speaker – John Mashburn - (Oak Ridge National Laboratory)*

#### Topic – “ASME Code versus the French Reactor Component Construction – Mechanical Code”

The most prevalent code used outside of the United States is the French Reactor Component Construction-Mechanical (RCC-M) Code. While the Codes are very similar because the RCC-M is based on the ASME, there are significant differences that designers, fabricators, and material suppliers need to be aware of. We will compare and contrast the major differences between these two Codes and present technical solutions to allow fabricators to work to either code with as little difficulty as possible. With construction immanent in the United States, China, UK, and ongoing in France, understanding the Codes that may be used and how to comply with each is of major importance to any fabricator or vendor wanting to supply to a world wide market.

*Speaker – David Allore ((HSB Global Standards)*

#### T23 Topic – “Architecting a Software Solution for Witness and Hold Point Management”

*Speaker – Hank Sobah (Westinghouse Electric)*

#### Topic – “Because Quality Should Never be a Question”

*Speaker – Nate Lindell (INSPECTECH)*

### 2:30 p.m. Break (in the Exhibit area)

### 3:00 p.m. Concurrent Sessions

#### T31 Topic – “Challenges for More Effective Procurement Control”

Last year, MHI successfully completed construction of a new reactor, TOMARI Unit.3, after an interval of twelve years. One of the keys to project success was the special attention that MHI paid to procurement control through the construction period, because the reliability of the reactor was determined by the quality of the supplier's activities. This presentation will introduce MHI's approaches and the Lessons Learned for the future.

*Speaker – Naoki Miyakoshi (Mitsubishi Heavy Industries)*

T 32 Topic – **“Commercial Grade Dedication of Computer Software”**

*Speaker – Norman Moreau (Theseus Professional Services)*

T33 Topic - **“Facility Design Change Management”**

This presentation briefly describes the processes that constitute the system for the management of changes to the design of a complex facility – starting the initial process for the proposal of a design change and ending with the processes needed to keep the facility’s as-built configuration, design documentation and support documentation in equilibrium. The major elements of each process in the system are discussed. Key performance indicators also are addressed. The take-away is an elementary understanding of the facility design change management system, the processes that make-up the system, and the major elements to be addresses in each process.

*Speaker – Ben Marguglio (BW (Ben) Marguglio LLC & Bookinars, Inc.)*

**4:30 p.m. Committee Meetings**

### **Wednesday, November 3<sup>rd</sup>**

**8:00 a.m. Session**

W11 Topic - **“ASME NQA-1 2008 and 2009 Addenda – What’s Changed since 1994?”**

The NRC endorsed the current version of ASME NQA-1 in Regulatory Guide 1.28 Revision 4. This presentation will summarize the changes between the current edition and the previously version endorsed by the NRC, i.e. 1994.

*Speaker – John Adkins (Southern Company)*

Topic – **“Quality Excellence Development Program – Developing a unique professional development path to support the surging nuclear renaissance”**

*Speaker – Kelly Mediate (Westinghouse Electric Company)*

**9:30 a.m. Session**

W21 Panel Discussion – **“Developing Tomorrow’s QA/QC Professionals”**

Panelists – **Jim Maddox (INPO), Mark Harvey (NEI / UniStar), Robert Murray (DOE)**

**11:00 a.m. Conference Wrap-up – Keith Aleckson**

**11:30 a.m. Conference Adjourns**

### **Hotel**

The OMNI San Antonio Hotel at the Colonnade is located at 9821 Colonnade Boulevard in San Antonio, TX. For information on the hotel and area attractions, or for driving directions, visit the hotel’s website at

[www.omnihotels.com/FindAHotel/SanAntonio.aspx](http://www.omnihotels.com/FindAHotel/SanAntonio.aspx)

For reservations, call the hotel directly at 210-691-8888 and be sure to mention the **American Society for Quality Conference**.

A special conference rate of \$109 plus tax per night is available until October 20, 2010.

### **Airport Transportation**

A complimentary shuttle between the hotel and the airport runs from 6:00 AM to 10:00 PM.

Taxi service is available 24 hours and costs approximately \$20.00 one way.

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## Registration Form

PLEASE PRINT CLEARLY:

ASQ member number \_\_\_\_\_

Last Name \_\_\_\_\_

First Name \_\_\_\_\_

First name for badge \_\_\_\_\_

Spouse/Guest Name \_\_\_\_\_

Company \_\_\_\_\_

Job Title \_\_\_\_\_

Address \_\_\_\_\_

Street

City

State/Province

Postal Code

Country

Phone \_\_\_\_\_

E-mail \_\_\_\_\_

**Conference Registration Fee:** Includes admission to keynote presentations, executive panels, all concurrent sessions, exhibits, two lunches, refreshment breaks, and Sunday evening reception \$ \_\_\_\_\_

**Daily Fee:** Includes one-day admission, exhibits, and lunch \$ \_\_\_\_\_

**Spouse/Guest Fee:** \$60 - Includes Sunday night reception and three continental breakfasts. \$ \_\_\_\_\_

**TOTAL:** \$ \_\_\_\_\_

### PAYMENT INFORMATION

Registration must be accompanied by payment in full (US currency) for all desired activities. All fax and phone registrations MUST include credit card information (MC/VISA/AMEX only). Do not follow up on phone or fax registration with a mail-in registration.

### SPECIAL NEEDS

If you have special needs or dietary restrictions, please call Meetings and Events Management at **866-220-9757** or fax to **281-812-4426**.

Check enclosed/Check # \_\_\_\_\_ (Make payable to ASQ-EED)

Please charge my credit card: \_\_\_\_\_ MC \_\_\_\_\_ VISA \_\_\_\_\_ AMEX

Credit Card Number \_\_\_\_\_ Expiration Date: \_\_\_\_\_

Credit Card Billing Address \_\_\_\_\_

Name of Cardholder: \_\_\_\_\_ Signature \_\_\_\_\_

**Fax or mail completed Registration Form to:**

Meetings & Events Management  
20003 Bunker Bend Ct.  
Humble, TX 77346  
Fax: 281-812-4426

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### Conference Registration Fees

	<b>Fee received by October 20, 2010</b>	<b>Fee received after October 20, 2010</b>	<b>Daily Fee</b>
<b>ASQ Member</b>	\$695	\$725	\$325
<b>Nonmember</b>	\$745	\$775	\$375
<b>ASQ Student</b>	\$125	\$125	\$75
<b>Spouse/Guest</b>	\$60	\$60	n/a

Nonmember registration includes a one-year membership as a forum member in the Energy and Environmental Division.

Spouse/Guest Fee includes Sunday reception and three continental breakfasts.

### Substitutions or Cancellations

Substitutions can be made at any time, even on-site at the conference. If you find you cannot attend and cannot send a substitute, we will be happy to transfer your conference fees to another ASQ-EED conference or course of your choice, or if you prefer, we will refund your conference registration fee subject to the following deadlines. Requests for cancellations or transfers received on or before October 8 will receive a full refund or transfer less \$40. Requests received between October 9 and October 21 will incur a \$100 processing fee. No requests for refunds or transfers will be accepted after October 21.