

## Water Treatment

Title 51 Public health – sanitary code part XII Water Supplies review for industrial entities.

What is potable water?

Review of definitions of community water supply:

- private water vs. public water supply
- Non-community water supply
- Non-transient non community water supply

§105 Permit requirements for a potable water supply

§107 Grandfather provisions

§109 Requirement for potable water supply

§113 Engineers report

Subchapter C. Source Development; surface water & ground water

Conventional Mechanical and chemical treatments

Testing requirements.

1 hour presentation of the above topics for industrial manufacturing sites.

To be offered at the GBRIA Industrial Showcase at Lamar Dixon Trade Mart Exhibit hall, June 9 2022 at 2 PM.

Presented by:

David Hatcher

Certified Water Technologist

LA Op 4

Thornton, Musso & Bellemin, Inc.

## Ethics

**TITLE:** Ethics – It's Seldom as Clear as We Think

**SUMMARY:** Ethics is usually not an easy decision. Rarely are we faced with an Ethical question that is clearly black and white; right or wrong. It is rarely a clear decision. Doing the ethical thing is not always an easy decision and determining the correct path may include many variables that cause us to pause and consider what the right decision may be. We will discuss some ethical scenarios that illustrate this point and provide us some insights into what the correct approach could be and the factors that influence our decision-making process.

**SPEAKERS:** Bill Rushing, P.E.; Senior Vice President Waldemar S. Nelson & Co, New Orleans, LA

Bill is a Senior Vice President and Manager of the Civil and Environmental Engineering Department and Manager of the Architectural Department at Waldemar S. Nelson & Co., Inc in New Orleans, LA. He has over 40 years of experience in a wide variety of projects across the United States and internationally. In addition to serving as a structural engineer on many projects, William has served as an expert and forensic witness in cases involving structural behavior of various structures, identifying damage causes. He received his BS in civil engineering from Louisiana State University, Baton Rouge, LA, in 1981 and is a licensed professional engineer in Louisiana, Mississippi, Alabama, Arkansas, Georgia, New Mexico, Texas and Arizona.

Bill served as the President of the American Concrete Institute (ACI) 2014-2015 and is an Honorary Member of ACI. He has been very active within ACI having served as a member or chaired numerous technical, educational, and administrative committees as well as serving on the local ACI Louisiana Chapter board of direction including as President in 1998. Bill received the Strategic Advancement Award, Henry L. Kennedy Award, ACI Education Award and the Chapter Activities Award. He is also a member of the American Society of Civil Engineers (ASCE) and Structural Engineers Institute (SEI) and serves on the ASCE SEI New Orleans Chapter Executive Committee.

## ABSTRACT

### **Confined Space Entry: Bridging the Safety Gap with Critical Thinking**

Confined spaces are found in nearly every civil and industrial operation. Confined space entry (CSE) is dangerous and presents a challenge because spaces tend to be unique. A one-size-fits-all solution leaves gaps in safety.

By applying critical thinking to confined space entry (CSE), industrial companies can improve safety, environmental operations, and regulatory compliance.

This session focuses on how to apply critical thinking in various applications to optimize safety, starting with the fundamental basics of CSE safety, including lockout/tagout, ventilation and lighting, gas detection, and personal protective equipment.

To illustrate best practices, the session then uses real-world scenarios to illustrate the critical thinking steps to maximize safety:

- Removal of chrome alloy components from sulfur-rich amine service
- Removal and replacement of refractory inside regenerator with cyclones
- Removal of multi-bed reactor catalyst

The session explores special considerations for inert entry, measurement of hazardous substances and risk control, and critical thinking considerations for different sample points.

Also discussed are different types of gas detection methodologies, which to use and when, and the limitations of each. Critical thinking can guide the user to the best choice for the application.

#### **About the speaker**

Rebecca Bedell is a Certified Safety Professional (CSP) and Director of EHS consulting for Dräger, a global provider of safety solutions. Rebecca has extensive experience in the petrochemical industry and consulted for numerous clinical and manufacturing facilities. Her current focus is on safety optimization and sustainability solutions.

Rebecca holds a BS degree in Kinesiology, a MS degree in Occupational Health and Safety and Environmental Management, and a Master of Jurisprudence in Energy and Environmental Law from Texas A&M School of Law.

- **Emerging Technologies in Industry Engineering Applications Using Reality Capture (Laser Scanning, Drones, Cameras, for Creating Digital Twin both Small and Large Projects), John Tav, Technology Manager, Engineering and Inspection Services, LLC (EIS)**

Topics to explore the use of emerging technologies in industry engineering applications, mostly centered on reality capture tools, methods and uses with examples from various types of users (plants, fabricators, service providers, etc.).