

February 2016 Technical Meeting

Pressure Relief Valve Technology and Sizing Improvements for Process Safety Management

Join us on February 16th as we learn from **Dave McHugh, of Allied Valve** and **Joe Baffoe, of Valdes Engineering** who will discuss pressure relief valve technologies, relief valve design, the role of relief valves in process safety management, and two-phase relief valve sizing improvements.

Each relief system is unique and requires careful analysis to provide the best solution. There are different types of pressure relief devices including conventional relief valves, bellows, pilot relief valves and rupture pins. Several industry codes regulate relieving devices, such as ASME Section I and Section VIII for steam boilers and pressure vessels and API 520 for the Refining and Petrochemical Industries. OSHA requires operations to maintain records of their relief systems as part of Process Safety Management. Relief valve sizing methods of ASME and API will be discussed, along with two phase flow calculations using the Omega Method, Three-Point Homogeneous Equilibrium Method (TPHEM) and Direct Integration.

David McHugh is Vice president of Allied Valve with Commerce Engineering degree from Drexel University who has over 25 years of experience in the valve industries having worked directly for Durco, Dresser and now one of the owners and leaders at Allied Valve. He currently sits as member of the NBIC VR subcommittee assessing and recommending pressure relief device code and policy.

Joe Baffoe is a Senior Process Engineer with Valdes Engineering Company. He has over nine years of experience in the specialty chemical and oil and gas industries. He holds a B.S.Ch.E. from Purdue University, a M.S.Ch.E. from Illinois Institute of Technology and is a registered professional engineer in Illinois.

Topics to be Covered:

- PRV Introduction
- ASME Sec. 1 and VIII, API 520
- Power and Refinery PRV Application
- Process Safety Management
- PRV Sizing Methods
- Two-Phase Flow Sizing Improvements

Location: Nevin's Brewing Company Plainfield, IL

12337 South Rt. 59

Plainfield, IL 60585

<http://www.nevinsbrewing.com>

Date & Time: Tuesday, February 16th, 2016

5:00 PM Social Hour

6:00 PM Dinner

6:30 PM Presentation

Register: <http://isawilldupage.org/event/february-2016-technical-meeting/>

\$15 Non- Members | \$5 Member & Students

Social Hour Sponsored By: Allied Valve, Inc

Attend this seminar and receive 1.0 Professional Development Hours (PDH)