Tentative program

Development of Engineering Analysis Methods and Tools for Pressure Relief Valve Stability and Relief Piping Reaction Forces – Session Chair: Marc Levin

1. Effect of Body Bowl Choking on Pressure Relief Valve Stability – Izuchi, H.
2. Dynamics of Direct Spring Operated Prv's with Inlet Piping in Gas Service – Paul, K., Champneys, A., Hos, C., McNeely, M
3. Modeling and Computation of Reaction Forces on Relief Piping during Depressurization – Cozen, J., Wood, G.

Effective Scenario Identification for Pressure Relief and Effluent Handling Systems – Session Chair: Peter Howell

1. Overpressure Protection of a Pressure Vessel By System Design through the Application of ASME VIII Ug-140 in Lieu of a Relief Device By an Appropriate Choice of Mawp and/or By Safety Instrumented System – Das, D.
2. Understanding Gas Blowby Scenario Calculations – Faulk, N., Aldeeb, A., Kumana, Z.
3. Can I Use My Cooling Water Header As a Relief Device? – Raman, R.

Effectively Deal with Evolving Codes, Standards, and RAGAGEP for Pressure Relief Systems – Session Chair: Warren Greenfield

1. Changes Between API STD 521 6th Ed and 5th Ed Cataloged – Smith, D. and Burgess, J.
2. Changes Between API STD 520 Part II 6th Ed and 5th Ed Cataloged – Burgess, J. and Smith, D.
3. Evolution of Relief Sizing at an Operating Company – Maness, M., Mize, J., Chastain, W., Falin, J.

Relief Considerations for Low Pressure Storage Tanks – Session Chair: Casey Houston

1. A Comprehensive Guide to Accurately Size Pressure and Vacuum Relief Devices for Atmospheric and Low Pressure Storage Tanks – Patel, U., Streblow, S., Riha, J., Zamora, M.
2. Overfilling Protection for Weak Tanks – Raman, R., Moncalvo, D., Heidermann, T., Kostos, S.
3. Influence of Overpressure in Pressure Vacuum Safety Valves on Emission Reduction and Explosion Risk Minimization of Atmospheric Storage Tanks – Moncalvo, D., Davies, M., Barfield, M., Mason, C.

How to Measure the Right Data for Reaction Systems – Session Chair: Peter Ralbovsky

1. Phi Correction for Exothermic Gas Generation Rate – Zhao, G.
2. Calorimetric Study of the Exothermic Decomposition of Dimethyl Sulfoxide – Brandes, T., Smith, D.
3. Relief System Sizing for Runaway Chemical Reactions - a Simple Comprehensive Approach – Kozlowski, C

New Developments in Fire Exposure and Depressuring Systems Design and Evaluation – Session Chair: Mike Maness

1. Modification of the Diers Fire Exposure Test Methodology – Ralbovsky, P., Chippett, S.

2. Guidance for Sizing Relief Devices That Are Installed below Liquid Level in an External Fire – Raman, R.
3. Mechanical Integrity Considerations in LNG Depressurization – Nguyen, D.

Practical Methods for Two Phase Flow Estimates – Session Chair: Davide Moncalvo

1. Choked and Near-Choked Real Gas and Two-Phase Flow Analysis of Discharge Piping – Korelshteyn, L.
2. Models for Multi-Phase & Single-Phase Flow in Pressure Relieving System Using Bernoulli Integration – Self, F., Ganjam, S., Jacobs, G.
3. How to Size a Rupture Disk Vent Line for Two-Phase Gas/Liquid Flow Based on Current Engineering Practices – Schmidt, J.

Unique Aspects of Pressure Relief Systems Design and Evaluation for Reaction and Flare Systems – Session Chair: Chuck Kozlowski

1. Statistical Review of Runaway Reaction Kinetics – Kumpinsky, E.
2. Emergency Relief System Design for Reactive System Using Direct Scale-up Method – Singh, S.
3. Engineering Safe Pressure Relief for Existing Flare Systems – Riha, J., Steblow, S., Patel, U., Zamora, M.

Initial Design and Managing Ongoing Operation of Pressure Relief Systems – Session Chair: Daniel Nguyen

1. Overlooked Factors in Pressure Relief Systems Design – Zamora, M., Streblow, S., Riha, J., Patel, U.
2. Auditing Relief Systems Design Basis - Best Practices – Prophet, N.
3. Will It Really Make That Much of a Difference? Broad Effects of Operational Changes on Relief System Design – Baker, M., Bucher, T.