

Research Project Topic (Looking for Project Chair Volunteers)

- 1 PRV stability
- 2 Simulation versus analytical PRV sizing methods for two-phase flow
- 3 PRV blowdown certification by ASME
- 4 PRV two-phase flow coefficients of discharge
- 5 Two-phase flow onset / disengagement methodology and flow regime prediction methods
- 6 Non-equilibrium flow and SRV geometry
- 7 Experimental verification of the transition from homogeneous to slip flow
- 8 Full-scale testing to refine simulations methods
- 9 Handbook containing worked PRV and effluent handling examples using SuperChems
- 10 PRV sizing for systems containing solids
- 11 Evaluate application of flame arrestors to breather vents
- 12 Round-robin reaction calorimetry and calculation methods
- 13 Compilation of past round-robin data
- 14 Fire Exposure of gas-filled vessels
- 15 Separator sizing (e.g., flare knock-out drums)
- 16 PRV sizing for non-Newtonian flow (including solids and high viscosity)
- 17 Best practice methods for fire case (including liquid swell and wetted area)
- 18 Best practice methods for vent header sizing