NEW EMERGENCY RELIEF DESIGN SOFTWARE "FERST"

FAUSKE EMERGENCY RELIEF SYSTEM TOOL POWERED BY CHEMCAD

We are excited to announce the release of FERST, a new easy-to-use software co-developed by Fauske Associates (FAI) and Chemstations. FERST seamlessly combines the relief system design expertise and experience from FAI with the user experience and robust simulation capabilities from CHEMCAD to create a premier emergency relief sizing software. FERST combines FAI's 40 years as leaders of chemical, nuclear, and industrial process safety with Chemstations' 30 years' experience providing process simulation software.

FERST powered by CHEMCAD makes designing or evaluating relief systems simple and more rigorous while incorporating all the latest methodology and applicable standards. Key FERST software features include:

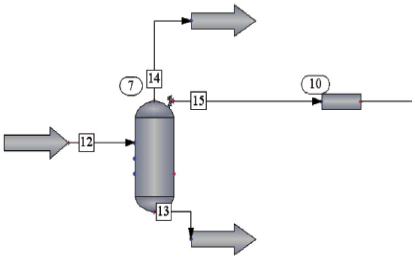
- **Choose from the Comprehensive List of the Latest Methodologies**
  - System Types: Vapor (tempered), Gassy (non-tempered), Hybrid (tempered with gas generation), and Non-reactive fire exposure systems (API 520/521, API 2000, OSHA 1910.106, NFPA 30)
  - Design Methodologies: Leung-Omega (with the option for ISO 4126-10 omega parameter determination), Fauske Vapor/Gas, and General Screening Equations
  - Flow Regime Options: Bubbly, Churn Turbulent, Homogeneous, Vapor Only, Liquid Only

- **Design New Relief Systems**
  - Enter information on the vessel, contents, and upset scenario
  - Calculates the conventional required size of relief device (rupture disk or pressure relief valve), and provides the allowable pressure losses through the inlet and/or outlet relief piping to ensure proper operation

- **Evaluate Existing Relief Systems - Statically**
  - Enter information on the installed relief device and relief piping and choose an upset scenario
  - Maximum pressure and temperature the vessel would experience will be calculated
  - Determine if the installed relief device and piping will adequately protect the vessel for the upset scenario

- **Evaluate and Model Existing Relief Systems - Dynamically**
  - Model the relief event dynamically, using vessels and pipes on a flowsheet
  - Simulate the change in vessel contents, physical properties, and system pressure over time
  - Multiple options for source terms: specified temperature and/or pressure rise rates, low Φ-factor adiabatic calorimetry (Coming soon), zero-order kinetics (Coming soon), non-reactive fire exposure
  - Model a single vessel, or multiple vessels venting simultaneously. Evaluate relief lines and headers shared by vessels to ensure they are sized adequately

- **Numerous Options for Material Property Evaluation**
  - Calculate pure chemical properties using DIPPR database with over 2500 chemicals
  - Calculate liquid and vapor properties of mixtures
  - Rigorously calculate Vapor-Liquid equilibria of a mixture - 40 different thermodynamic models
  - Create new chemicals in a user database
  - Predict properties for new chemicals or regress experimental data



- **User-friendly GUI**
  - Customizable ribbon interface for easy operation
  - Drag and drop flowsheet graphics

- **Technical Support from Industry Experts**

Contact Us Today for a Free Trial! More information at www.fauske.com.