CEP SHOWCASE

ELIMINATE VALVE CAVITATION

- Place one or more diffusers downstream of a valve to eliminate cavitation
- Eliminate noise
- Eliminate pipe vibration
- Reduce valve first costs
- Reduce valve maintenance



725 Parkview Cir, Elk Grove, IL 60007 Phone 847-439-2303 RCRONFEL@CUSERVICE.NET www.cuservices.net

www.aiche.org/cep or Circle No. 150 on p. 63

Mixing Solutions for Multiple Tank Configurations



Pulsair pneumatic mixers are the undisputed leader in Process Control Management. Our systems are designed to operate on minimal nitrogen, thus eliminating temperature fluctuation and specific gravity stratification in tanks. The **Pulsair** System operates multiple tanks exceeding one million gallons each or more, with one programmable controller, creating a consistent viscosity every time.

For further information, contact 425.455.1263 800.582.7797 sales@pulsair.com www.pulsair.com

www.aiche.org/cep or Circle No. 153 on p. 63



15

Si

produces a complete line of SILICONE DEFOAMER COMPOUNDS & RELEASE EMULSIONS manufactured to exacting specifications. Available in technical, food, EPA & Kosher grades. Environmentally friendly. Our response time to customer shipment requirements is unrivalled. So is our value. Call TAYLOR CHEMICAL CO., the anti-FOAM EXPERTS. Call: 770-339-4460 800-822-4460 Fax: 770-339-4464 www.TaylorChemical.com

www.aiche.org/cep or Circle No. 151 on p. 63

ProMax® is a powerful and versatile stream based process simulation package used for the design and optimization of gas gathering, amine sweetening, gas processing, refining and chemical facilities. ProMax contains over 50 thermodynamic package combinations, 2300 pure components, OLE automation, oil characterization. Microsoft® Excel® spreadsheet embedding and utilizes Microsoft Visio® as the drawing package. BR&E recently announced the release of **ProMax** version 2.0. This version of **ProMax** contains a complete reactor suite for modeling kinetic (plug flow and stirred tank), equilibrium, conversion, and Gibbs minimization schemes. This new feature along with many additional enhancements combines to uphold ProMax's reputation as the "must have" simulation tool for engineers around the world.



www.aiche.org/cep or Circle No. 154 on p. 63

VMGSim™ Integrated Steady State and Dynamic Simulation.



Easily create process models of refining, chemical and oil/gas processing to troubleshoot, design or optimize your plant. Create steady state models, size and rate vessels, columns and heat exchangers. Add your control system to the model and click a button to run dynamically. Use the dynamic wizards to create and run dynamic depressuring and blowdown studies and model multistage compressors and antisurge control. Create custom unit operations and economic models embedded in your process model by dragging the Excel operation onto your PFD. Graphical User interface driven by embedded Visio. Completely Interactive, bidirectional simulation solver.

For more information visit our website at www.virtualmaterials.com



www.aiche.org/cep or Circle No. 152 on p. 63

300 Multiphysics Presentations



COMSOL®, **Inc.** is now offering a free copy of the 2006 User Presentations CD! The CD is a compilation of over 300 user contributed slides, papers and models presented at multiphysics conferences worldwide. This unique presentation and proceedings CD covers a wide variety of applications including Chemical Engineering, Fluid Dynamics, Heat Transfer, Reaction Engineering and much more.

Request your complimentary copy at www.comsol.com; Tel: 781-273-3322



www.aiche.org/cep or Circle No. 155 on p. 63