## **FOR SALE / RENT**

24/7 EMERGENCY SERVICE

**BOILERS** 20,000 - 400,000 #/Hr.

DIESEL & TURBINE GENERATORS 50 - 25,000 KW

GEARS & TURBINES 25 - 4000 HP

WE STOCK LARGE INVENTORIES
OF:

Air Pre-Heaters • Economizers
Deaerators • Pumps • Motors
Fuel Oil Heating & Pump Sets
Valves • Tubes • Controls
Compressors • Pulverizers
Rental Boilers & Generators

WWW.WABASHPOWER.COM 800-704-2002



www.aiche.org/cep or Circle No. 200

# FOR GASES & LIQUIDS! Talk Directly with Design Engineers! Blower Cooling Vent Condensing INDUSTRIAL HEAT EXCHANGERS (952) 933-2559 info@xchanger.com

www.aiche.org/cep or Circle No. 205

### PROCESS FILTRATION EQUIPMENT

JWI Filter presses with polypro recessed plates Sparkler & Niagara horizontal plate filters, Model 33D17, 18523, 1824S & 3348S Stainless Steel ERTEL & STAR Filter presses Nutsche filter, 10 gal, 316 SS, 35 psi K-S Avery 35 cu. ft. membrane filter press, polypro plates US Autojet, Pressure leaf, 400 sq. ft., stainless steel

### AVERY FILTER COMPANY

(201) 666-9664 Fax (201) 666-3802 E-mail: larry@averyfilter.com www.averyfilter.com

www.aiche.org/cep or Circle No. 201

# www.ae-sim.com Process Simulators

Material Balance - Process Control Power Plant Steam Cycles Free Demo Downloads

www.aiche.org/cep or Circle No. 202

### **EQUIPMENT FOR SALE**

16 TON C-FRAME MULTIPRESS NEW IN '96
300 GALLON BP MDL JUMM-2 W/OIL HEATER
300 GALLON BP MDL NMM VACUUM MIXER
AARON 1 GAL. SS SIGMA BLADE LAB MIXER
BAKER-PERKINS LAB DOUGH MIXER, UNUSED
DAY 550 GAL DAYMAX 100 HP SS DISPERSER
BONNOT 4" EXTRUDER LINE W/CONVEYORS
ABBE 256 SS CU. FT. DBL CONDE MIXER
250 GAL PROCESS EQUIP. SANITARY TANK
250 GAL PRECISION INSULATED SS SANITARY TANK
WITH 3/4 HP LIGHTIN AGITATOR, UNUSED
GRUENBERG LAB VACUUM TRAY DRYER, 650 DEG.

### WEB SITE MOHAWKMACHINERY.COM

### MOHAWK MACHINERY

CINCINNATI OH 513-771-1952 CALL JIM MUELLER'S CELL PHONE 513-608-7902

www.aiche.org/cep or Circle No. 203

# **BOILERS**

**Available Immediately!** 



### lease • rental • sale

(3) New 250,000 PPH 750 PSI / 750 Deg. S.H. with Low NOx Burners

(2) New 250,000 PPH 850 PSI / 750 Deg. S.H. with Low NOx Burners

250,000-850 PSI / 750 Deg. F. TRAILER 250,000-750 PSI / 750 Deg. F. MOUNTED 180,000-750 PSI / 750 Deg. F. 72K-350 PSI 165,000-1025 PSI / 850 Deg. F. 70K-350 PSI 165,000-350 PSI 70K-350 PSI 150,000-750 PSI / 750 Deg. F. 45K-750 PSI 40K-350 PSI 135,000-750 PSI / 750 Deg. F. 36K-300 PSI 120,000-350 PSI 30K-300 PSI 120,000-725 PSI / 750 Deg. F. 24K-300 PSI 70,000-350 PSI EMERGENC, 60,000-750 PSI / 750 Deg. F. 50,000-350 PSI 40.000-750 PSI 40,000-350 PSI 30,000-350 PSI 20,000-1600 PSI EMERGENC 10-1,000 HP / 15-250 PSI

# //\*|\_\_\_*K.

INDECK POWER EQUIPMENT COMPANY tel 847.541.8300 / 800.446.3325 fax 847.541.9984 info@indeck-power.com www.indeck.com

www.aiche.org/cep or Circle No. 204

Looking To Advertise?

To be included in CEP Marketplace, CEP Showcase or CEP Ad Lits

Contact:
Doris B. Deutsch,
at 646-495-1361
or
dorid@aiche.org

ME

# MACHINERY & EQUIPMENT Co. Inc. Quality Used Equipment!

We have over 5,000 pieces of used processing and packaging machinery available. A large portion of this equipment was used in the Chemical and Pharmaceutical Industries.

Please visit our website to view detailed descriptions and photos at: www.machineryandequipment.com

P.O. Box 7632 San Francisco, CA 94120 Fax: (415) 467-2639 Toll Free: (800) 227-4544 Phone: (415) 467-3400

Email: info@machineryandequipment.com

www.aiche.org/cep or Circle No. 206

# **Intelligen Suite**

The Market-Leading Engineering Suite for Modeling, Evaluation, Scheduling, and Debottlenecking of Single & Multi-Product Facilities

# SuperPro

# Synthesis of an Active Pharmaceutical Intermediate (API) Synthesis of an Active Pharmaceutical Intermediate (API)

Use SuperPro Designer to model, evaluate, and debottleneck batch and continuous processes

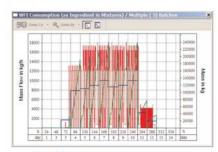
# SchedulePro



Switch to SchedulePro to schedule, model, and debottleneck multi-product facilities

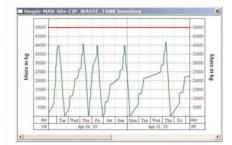


Tracking of equipment occupancy in multi-product facilities



Recipe DB

Tracking demand for resources (e.g., labor, materials, utilities, etc.)



Inventory tracking for raw materials, intermediates, products, and wastes

**SuperPro Designer** is a comprehensive process simulator that facilitates modeling, cost analysis, debottlenecking, cycle time reduction, and environmental impact assessment of biochemical, specialty chemical, pharmaceutical (bulk & fine), food, consumer product, mineral processing, water purification, wastewater treatment, and related processes. Its development was initiated at the Massachusetts Institute of Technology (MIT). SuperPro is already in use at more than 400 companies and 500 universities around the world (including 18 of the top 20 pharmaceutical companies and 9 of the top 10 biopharmaceutical companies).

SchedulePro is a versatile finite capacity scheduling tool that generates feasible production schedules for multi-product facilities that do not violate constraints related to the limited availability of facilities, equipment, resources and work areas. It can be used in conjunction with SuperPro (by importing its recipes) or independently (by creating recipes directly in SchedulePro). Any industry that manufactures multiple products by sharing production lines and resources can benefit from the use of SchedulePro. Engineering companies use it as a modeling tool to size utilities for batch plants, identify equipment requirements, reduce cycle times, and debottleneck facilities.

Visit our website to download detailed product literature and functional evaluation versions of our tools

INTELLIGEN, INC. • 2326 Morse Avenue • Scotch Plains, NJ 07076 • USA Tel: (908) 654-0088 • Fax: (908) 654-3866
Email: info@intelligen.com • Website: www.intelligen.com
Intelligen also has offices in Europe and representatives in countries around the world