

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

wabash Power
Equipment Co.
444 Carpenter Avenue Wheeling, IL 60090

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

PROCESS FILTRATION EQUIPMENT

JWI Filter presses with polypro recessed plates
Sparkler & Niagara horizontal plate filters,
Model 33D17, 18523, 18245 & 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

EVERY 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

**EcReCon
Inc.**

Economy Recovery Conservation

Serving the chemical, petrochemical, plastics,
pharmaceutical and food industries

We Stock: TANKS • VESSELS

*** REACTORS • HEAT EXCHANGERS**

*** CHILLERS • COLUMNS • MILLS**

*** SCREENERS • SILOS**

*** DUST COLLECTORS • MIXERS**

*** BLENDERS • PUMPS • CENTRIFUGES**

*** DRYERS • FILTERS • COMPRESSORS**

*** AND MUCH MORE!**

EcReCon has over 20 acres of surplus
process equipment available for sale.

*"We Buy and Sell Process Equipment from Individual
Pieces to Complete Plants and Provide Full Plant
Dismantling Services"*

www.ecrecon.com

Phone: 856-299-4500 • Fax: 856-299-4446

Email: Sales@ecrecon.com

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

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.
250,000-750 PSI / 750 Deg. F.
180,000-750 PSI / 750 Deg. F.
165,000-1025 PSI / 850 Deg. F.
165,000-350 PSI
150,000-750 PSI / 750 Deg. F.
135,000-750 PSI / 750 Deg. F.
120,000-350 PSI
120,000-725 PSI / 750 Deg. F.
70,000-350 PSI
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
10-1,000 HP / 15-250 PSI

**TRAILER
MOUNTED**

72K-350 PSI
70K-350 PSI
70K-350 PSI
45K-750 PSI
40K-350 PSI
36K-300 PSI
30K-300 PSI
24K-300 PSI

**EMERGENCY SERVICE
24HR
EMERGENCY SERVICE**

INDECK
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. 203

EQUIPMENT FOR SALE

BRABENDER LAB PREP CENTER '83 Model D
(2) 35 TON C-FRAME MULTIPRESS NEW IN '96
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
300 J H DAY 300 GALLON VAC LOWBOY MIXER
DAY 550 GAL DAYMAX 100 HP SS DISPERSER
BONNOT 4" EXTRUDER LINE W/CONVEYORS
ABBE 256 SS CU. FT. DBL CONE MIXER
9" ABBE RCVD VACUUM LAB DRYER

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. 204



**Looking
to Advertise?**

Contact Doris Deutsch at
dorid@aiche.org



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

Toll Free: (800) 227-4544

Fax: (415) 467-2639

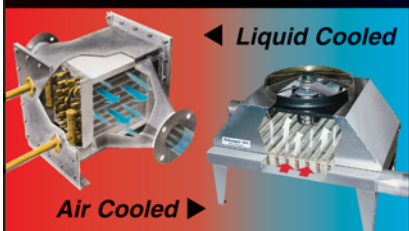
Phone: (415) 467-3400

Email: info@machineryandequipment.com

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

Equipment

HEAT EXCHANGERS



◀ Liquid Cooled

Air Cooled ▶

FOR GASES & LIQUIDS!

Talk Directly with Design Engineers!
Blower Cooling Vent Condensing

Xchanger

(952) 933-2559 Fax: (952) 933-5647
www.xchanger.com info@xchanger.com

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

Consulting

CRYSTALLIZATION & PRECIPITATION



Dr. Wayne J. Genck Genck International
3 Somonauk Court, Park Forest, IL 60466
Tel (708) 748-7200 Fax (708) 748-7208
genckintl@aol.com — <http://www.genckintl.com>

- Design/Scale-up
- Size Distribution
- Laboratory Investigations
- Filtration
- Troubleshooting
- Purity
- Caking
- Drying
- Particle Habit
- Product Micro-Analysis
- Polymorphism
- Kinetics Studies

◆ ◆ ◆ Industrial Seminars ◆ ◆ ◆

www.aiche.org/cep or Circle No. 207

Software

www.ae-sim.com
Process Simulators
Material Balance - Process Control
Power Plant Steam Cycles
Free Demo Downloads

www.aiche.org/cep or Circle No. 208

LOOKING TO ADVERTISE?

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

Contact:

Doris B. Deutsch,

Regional Sales Manager

at 718-961-8958

or

dorid@aiiche.org

SuperChems for DIERS

A dynamic simulator, SuperChems for DIERS is capable of performing emergency relief system and effluent handling designs.

With software based on DIERS methodology, you have the power to design emergency relief systems that meet OSHA 1910.119, ASME Section I, IV and VIII, and corporate requirements. SuperChems helps you compile raw process data into customized documentation. Rigorous modeling capabilities allow you to model simple single, multiphase, reacting, and highly non-ideal systems and easily run what-if scenario or sensitivity analyses. A database of 1,200 industrial chemicals and spreadsheet-based interface makes inputting and reporting quick and easy.

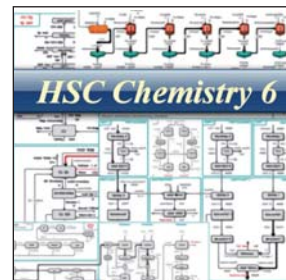
www.aiche.org/diers

DIERS

Design Institute for Emergency Relief Systems

www.aiche.org/cep or Circle No. 209

Great Step Forward for Green Chemistry



HSC Chemistry® 6 process calculation software now contains a new flowsheet simulation module which makes it possible to optimize process output and minimize waste materials. HSC may be used to rapidly focus expensive experimental research towards ideal process conditions. With 21 calculation modules and 11 databases at your fingertips, HSC 6 is an invaluable tool for any process engineer or scientist.

Outotec Research Oy

hsc@outotec.com

Tel: +358-20-529 211

Fax: +358-20-529 3203

Outotec

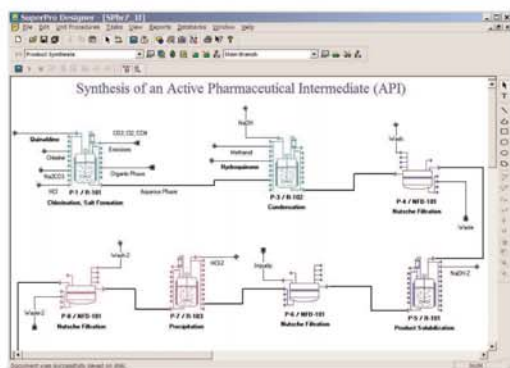
www.outotec.com/hsc

www.aiche.org/cep or Circle No. 210

Intelligen Suite

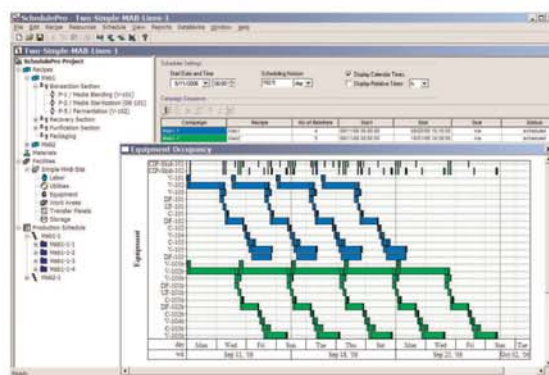
The Market-Leading Engineering Suite for Modeling, Evaluation, Scheduling, and Debottlenecking of Single & Multi-Product Facilities

SuperPro

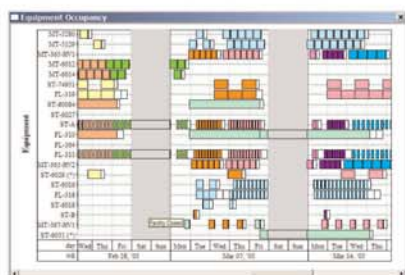


Use SuperPro Designer to model, evaluate, and debottleneck batch and continuous processes

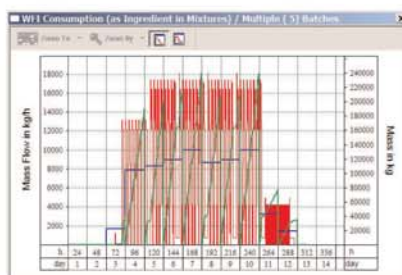
SchedulePro



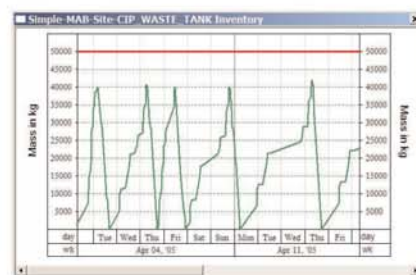
Switch to SchedulePro to schedule, model, and debottleneck multi-product facilities



Tracking of equipment occupancy in multi-product facilities



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