



the Power of Collaboration

2008 ABB Automation World Conference & Exhibition

Houston.Texas

Exhibition Hall

Welcome to the 2008 ABB Automation World Exhibition!

ABB value-added solutions featured in the demonstration area include Industrial IT Extended Automation System 800xA, Open Control System evolution, safety instrumented systems in high integrity control applications, industry-specific solutions for chemical, cranes, life sciences, marine, metals & mining, oil & gas, pulp & paper, turbocharging, utilities & power generation, water and wastewater.

ABB products and services also featured in this comprehensive hall include analytical products, electrical balance of plant, instrumentation, low voltage products and systems, motors and drives, power electronics, robotics and services.

Be sure to visit our new Electrical Integration Pavilion to see why ABB is considered the world's leader in automation and electrical systems integration.

ABB would like to thank our Sponsors and Technology Partners who will be exhibiting at Automation World:

Overall Event Sponsor



- The Center for Operator Performance
- G. Michaels Consulting
- Grace Engineered Products
- Hirschman Automation and Control
- Intergraph Process, Power and Marine
- Matrikon
- Matrox Graphics
- Metal Systems
- Microsoft
- MTL Instruments/Byres Security
- Panasonic Computer Solutions
- Pepperl+Fuchs
- Powerohm Resistors
- Trans-Coil
- TURCK Process Automation
- Westermo

Exhibition Guide Table of Contents

ABB Electrical Integration Pavilion.....	1
Best-in-Class Products and Systems from ABB.....	2
Value Added and Industry Solutions from ABB.....	8
Performance Services from ABB.....	12
Partnership Focus - Technology Partners.....	13

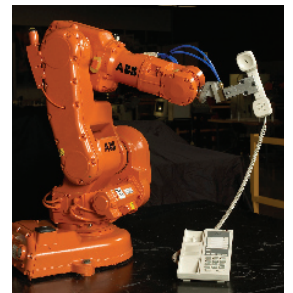
Exhibition Hall Hours

Monday, April 28
5:00 PM - 7:00 PM

Tuesday, April 29
10:00 AM - 7:00 PM

Wednesday, April 30
10:00 AM - 5:00 PM

Thursday, May 1
9:00 AM - 5:00 PM



Power and productivity
for a better world™



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Exhibition Hall (Exhibit Guide)

ABB Electrical Integration Pavilion

Electrical integration is the next frontier in delivering a unified environment that will drive improvements in productivity, increased safety and reduced cost over the total lifecycle of a process plant. By delivering a unified architecture based on standards and recognized fieldbus protocols, ABB will be able to deliver a system where components from high and medium voltage substation equipment, medium voltage switchgear, drives, valves, and instrumentation are seamlessly integrated with the process control system. This can provide many benefits such as:

- Unified operations and common platform infrastructures for both electrical and process control systems
- Extended asset management for process and electrical subsystems
- Optimized power management
- Reduced capital investment costs
- Reduced cost and complexity for lifecycle support
- Integrated project teams

The Electrical Integration exhibit offers a glimpse into the future as well as examples of what can accomplish today with electrical integration and System 800xA - ABB's state-of-the-art extended automation system.

Significant, value added integration between electrical equipment and process automation systems at ABB has already been achieved with System 800xA. Two examples that will be shown in this exhibit are:

- System 800xA's Asset Optimization integrated with ABB's MNSiS low voltage switchgear. This integration leverages status information available in the switchgear promoting preventative and predictive maintenance activities. This results in increased reliability and availability while reducing maintenance costs.

- Various ABB low voltage Intelligent Electrical Devices (IEDs) connected to System 800xA's AC800M controller. IEDs such as variable speed drives, motor controllers, and low voltage circuit breakers, will be seamlessly integrated into System 800xA. Value added features that improve the overall equipment effectiveness (OEE) are automatically available when using System 800xA's unique Aspect Object and Device Management technologies. By having pre-configured objects representing these IEDs, engineering, asset management, and access to valuable diagnostics, parameters, and documentation are just a few of the benefits that can be realized.

Also, ABB's vision for the not-too-distant future of Electrical Integration will be presented via a Power Management System running in a highly reliable System 800xA environment along with the automation system. Running the Power Management System in this common environment removes duality and additional lifecycle costs. It also allows for more comprehensive asset management solutions which can improve productivity, energy usage, and process uptime. This application will be shown using Industrial Ethernet which enables various IEDs and process control equipment to harmoniously co-exist further reducing design, project, and installation costs. Protocols such as IEC61850, PROFINET, and Fieldbus Foundation are used to integrate REF615 Feeder Relays, MNSiS Low Voltage Switchgear, ACS800 and ACS550 series drives, AC800M Controllers, S800 I/O, and FF instrumentation.

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Analytical Products

ABB Analytical combines on-line, at-line and laboratory analyzers, advanced process control and application knowledge for the process industries. Our portfolio includes: process gas chromatographs (including the PGC1000 and PGC2000 Series), process Multiwave photometers, continuous gas analyzers (including Easyline and Advance Optima Series and the Continuous Gas System Solutions -- ACX), FTIR and FTNIR Spectrometers (including the new laboratory spectrometer MB3000 and Horizon MB Software) and Industrial IT for PAT Software Suite.

Technology to be exhibited - MB3000 and Horizon MB Software, NetworkIR Spectrometers, Industrial IT for PAT

Solutions, Easyline EL3000 and AO2000 Series Continuous Gas Analyzers, PGC1000 field mounted process gas chromatograph, LGC2007 Laboratory Gas Chromatograph

Highlights for 2008:

- PGC1000 Field Mounted Process Gas Chromatograph
- MB3000 Spectrometer and Horizon MB Software
- Easyline EL3000 Series - Continuous Gas Analyzer

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Control Systems and Process Management

ABB's Extended Automation System 800xA is on display with live, interactive demos. System 800xA extends the reach of your automation systems to achieve greater productivity gains. This is demonstrated here through integration of ABB's family of controllers (AC 800M, AC 800M HI, Harmony/INFI 90, MOD 300, DCI System Six, and Advant Master) with System 800xA's productivity enhancing applications (Process Portal personalized workplaces, Safety, Device Management, Asset Optimization, Production Management / Batch, and Information Management). Along with the demonstration of these continuous improvement solutions, the booth highlights System 800xA's flexible, high integrity architecture. Specifically, System 800xA's common environment for SIL and non-SIL applications, local and remote I/O, and integration of fieldbus technologies (HART, FOUNDATION Fieldbus, and PROFIBUS) is on display.

Highlights for 2008:

- System 800xA Extended Operator Workstation
- Freelance 800F
- Compact Products 800
- AC700 PLC
- Industrial IT cpmPlus
- Evolution to System 800xA
- Safety
- Asset Optimization
- Consult IT

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Force Measurement Products and Systems

Renown for the ultra rugged Pressductor force sensor, the Force Measurement Division brings over 40 years of sensor application knowledge to the metals, paper, converting, printing and marine industries. Systems for web and sheet tension, rolling mill separating force, diesel combustion pressure and sheet flatness and thickness are recognized worldwide for their superior measurement performance and durability.

Highlights for 2008:

- Thickness gauge for non ferrous metals using pulsed eddy current technology
- Sensors for continuous monitoring of diesel combustion pressures
- Flatness measurement and control systems for metal sheet production
- Sensors for sheet and web tension

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Industrial IT and Integration

The Industrial IT booth showcases ABB's System 800xA-based interoperable products and solutions. The integrated system architecture, including both ABB and partner products, will be displayed and includes System 800xA, control hardware, smart devices, infrastructure equipment and software applications. System 800xA provides the foundation for integrated applications such as CMMS and ERP integration, Alarm Management, Asset Optimization, CPM/MES, Device Management and 3rd party controller connectivity. System 800xA is the only control system on the market today that was built for integration. Stop by the booth to learn more about Industrial IT and the power of integrated information.

Highlights for 2008:

- Integrated Alarm Management
- TDC3000 connectivity
- Industrial IT Enabled equipment and applications

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Instrumentation

See the full-range that ABB instrumentation has to offer including; electromagnetic, vortex/swirl, variable area, coriolis mass and wedge type flowmeters; pressure and temperature transmitters and sensors; recorders and controllers; in-line water and gas analyzers; valve actuators and positioners; hand-held configurators and calibrators; device management tools plus a wide range of services. We provide TUV certified devices plus a wide variety of FOUNDATION Fieldbus, PROFIBUS & HART enabled instrumentation.

Discover how ABB Instrumentation is taking you to the next step and take a journey through our booth, don't miss our racing simulator where top scores win big prizes!

Highlights for 2008:

- Navigator 600 Silica Analyzer
- SM500F Field-Mount Recorder
- Wedgemeter for tough flow applications
- Contrac electric valve actuator
- 364 dP transmitter with reversible polarity
- Asset Master device management system

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Low Voltage Drives

New ACS55, Enhanced ACS150, New ACS350 HP Extensions, ACS550 Frame Reductions and HP Extensions.

Highlights for 2008:

- RETA-02 Fieldbus Option - ModBus/TCP and PROFINET I/O
- ACS55 (replaces ACS50) with optional RFDT-01/-02 programming software
- ACS150 with +10VDC reference
- ACS350 - six HP extensions: 7.5, 10, 15 HP 240V; 20, 25, 30 HP 480V
- ACS150/350/550 FlashDrop Release 2
- ACS550:
 - o 200 HP 245A 480V Wall Mounted R6 Frame
 - o New ACS550 units in smaller frame sizes with more horsepower
 - o NEMA 4X Control Panel Cover
 - o OPMP-01 Remote Panel Extension Kit
 - o R5, R6 Frame Flange Kits.

- ACS800 Module Drive Offerings:
 - o Expanding module drive offering for custom packaging through System Integration Partners
 - o Liquid Cooled Cabinet Drives (accepting orders)
- DCS800
 - o Update existing power structures with the latest control and interface with DCS800-R control retrofits
 - o Complete package solutions for your high power DC drives

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Low Voltage Products & Systems - Control, Circuit Protection, Automation, Power Distribution

- Contactors, manual motor protectors, motor starters, softstarters, pilot devices, limit and safety switches
- Complete line of circuit protection: miniature DIN mountable breakers, molded case Tmax circuit breakers, Emax power breakers
- Fusible and non-fusible open style and enclosed disconnect switches
- Smissline power distribution system and transient voltage surge suppression
- Solid state timers, equipment control relays, electronic monitoring relays
- PLCs, PLC interface systems, power supplies, relays & optocouplers, digital and analog converters, HMIs, fieldbus plug, wireless sensors, remote I/O solutions
- Terminal blocks, power distribution blocks, plotters and marking systems
- Low voltage power distribution systems & equipment: Switchgear, Switchboards, LV Network Quality and IEC switchgear/motor control center
- Medium voltage softstarters
- Custom panel capabilities

Highlights for 2008:

- New industrial current limiting panel board
- S400 series direct mount smissline miniature circuit breakers
- Extreme Duty Softstarters for applications up to 600 Hp
- DC operated UL disconnect switches - 250V and 600V models available
- New, more compact design OT and OS 800Amp, non-fused disconnect switches
- New generation printed circuit board connectors

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Motors, Generators and Medium Voltage Drives

For over 100 years, ABB has been manufacturing motors and generators that feature quality, reliability and performance in all applications and industries. ABB offers a power range from fractional to 100,000 HP that meet or exceed the most stringent efficiency and safety standards.

ABB's medium voltage drives control the speed and torque of motors where more power is needed. By delivering precise process control through ABB's patented Direct Torque Control (DTC), our large drives ensure the highest control accuracy without the use of an encoder, despite input power variations or sudden load changes.

Highlights for 2008:

- Full line of LV Motors on display
- LEAP Program - large motor service capabilities
- Energy efficiency and control from MV Drives

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Power Electronics

The AC 800PEC is ABB's high-end process control system, and belongs to the Control IT product line. The AC 800PEC is the optimum solution for combining the high-speed control requirements of power electronics applications and low-speed process control tasks usually carried out by separate PLC units.

The ABB Fiber Optic Current Sensor (FOCS) is available for uni- or bi-directional DC current measurement up to 500kA. It offers an easily installed, interference-free alternative to the Hall Effect current transducers. The FOCS system utilizes the Faraday Effect to measure current, with a simple loop of optical fiber around the bus bar.

ABB High Power Rectifier & Advanced Power Electronics System Service is here to help you! In order to better support our customers, ABB offers a full range of service support. On-demand services or service agreements are a flexible and cost-effective way for customers to ensure efficiency, reliability, and availability for their operation and safety for their people. Whatever services and solutions you need, we have the answers, respond in a rapid and efficient manner, and above all, are here to help.

ABB Advanced Power Electronics Systems are used by both industrial and utility customers for power factor correction, distributed generation, energy storage, and power quality. ABB's Advanced Power Electronics team provides flexible power solutions with low losses, high reliability and a proven technology with a large installed base.

Highlights for 2008:

- We will display the AC 800PEC as well as the Fiber Optic Current Sensor (FOCS) mounted on simulated bus bar
- We are now offering Advanced Power Electronics Systems Service

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Power Products - Electrical Balance of Plant

As the leader in power technologies, ABB serves all aspects of the electric power industry with a broad range of products, systems and services for power transmission, distribution and power plant automation. Stop by and see the latest in:

- ABB Transformers: The full line of liquid filled, dry type, cast coil and specialty transformers and services for all distribution and power transformer applications.
- IEC and ANSI medium voltage switchgear and motor control products engineered for safety
- Protection and control devices and systems
- Switching and protection for high voltage transmission systems
- Substations and substation automation

- Life cycle service, parts, replacements, refurbishment and retrofits for transformers, high voltage products and medium voltage equipment
- Technologies for improving reliability and productivity: SCADA, intelligent power line carrier solutions and static var compensation
- High voltage equipment products ranging from (50 - 800 kV)
- Medium and Low Voltage Roll In Circuit Breaker Replacements for a wide (and growing) list of manufacturers including Siemens, Westinghouse DHP and GE AK and AKR breakers -- including Nuclear certified designs
- Single source of contact for Electrical Balance of Plant projects from the initial design through project execution.

Power Products – Medium Voltage

Highlights for 2008:

- The VisiVolt™ Voltage indicator uses a unique electric field sensitive LCD that can be permanently attached to current bars and conductors of any unshielded medium voltage system, providing a higher level of safety to avoid accidents.
- ABB GEMs provide a quick, easy, direct replacement for most GE electromechanical relays with a complete functionality match
- The REF 615 Feeder Protection & Control Relay combines powerful technology with a small package.
- The COM600 network device for distribution automation is simple to configure and commission.

- ABB's Intelligent Data Sensor technology allows utilities to automate their electromechanical substations, without the high cost of a microprocessor panel upgrade.
- The Individual Current Circuit FT Test Plug, with ergonomic handle, provides a safe, simple, fast, and reliable method to isolate and service installed equipment.

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Power Products – Transformers

Highlights for 2008:

- ABB Transformers is launching a brand new 90,000 sq. ft. facility focused on the small power transformer product range up to 63MVA.
- ABB offers a variety of liquid filled and dry type transformer solutions for renewable energy applications such as wind power and solar energy.
- ABB TRES (Transformer Remanufacturing and Engineering Services) offers unparalleled transformer design knowledge and fleet assessment capabilities as well as remanufacturing and repair services.

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Power Products - High Voltage

Highlights for 2008:

- The EXCOUNT II Condition Monitoring System, comprised of a sensor unit and a common hand-held transceiver unit, may be installed for direct monitoring of surge arresters while in-service and on-line. The monitor gives the user the ability to measure both the total leakage current as well as the resistive component of the current through the arrester.
- The ABBACUS Metal Enclosed Capacitor Bank (MECB) combines primary components, and secondary control and protection, within a compact modular enclosure. The ABBACUS is available in a range of MECB models and is suitable for voltage ranges between 1kV and 24kV.
- The Wrap & Strap Kevlar safety device has been added to ABB's Safety Toolbox for use on all manufacturers' high voltage circuit breakers in order to protect human life and reduce consequential damages to surrounding equipment that may occur during bushing explosions.
- The new Switching Control Sentinel (SCS) synchronous controller brings greater flexibility and ease of use to the proven Synchronous Control Unit (SCU) technology. The SCS system greatly improves capacitor and reactor bank performance and can even be used on transmission line energization.

- The 145PM63-B high voltage circuit breaker utilizes a new high performance interrupter to simplify substation cost and design by eliminating shunt capacitance for short line fault interrupting.
- The high performance 245PMG-B high voltage circuit breakers without external capacitors meet the latest ANSI standards for capacitive current switching. The breakers' CPU "puffer" interrupters are driven by the HMB-8 hydraulic-spring mechanism, whose excellent field reliability has been demonstrated in previous 242PM breaker designs.
- The new high voltage outdoor optical current transformer type MOCT-P uses time-multiplexing signals through the optical sensor to accurately measure primary currents without disruption from mechanical shock or vibration.
- ABB is the undisputed world leader in the hybrid module market and is introducing the PASS M00 hybrid switchgear module in the US this year.

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Power Systems - Substations

As part of ABB NAM Substations group we are a leading provider of Transmission and Distribution substation infrastructure solutions. We are the largest EPC organization among the OEM's. ABB's PSS NAM provides full turnkey capabilities to utilities and industries alike. This offering includes:

- Engineering (electrical and civil)
- Procurement
- Project Management
- Civil Construction
- Electrical installation
- Testing and Commissioning

We have over 25 years experience providing turnkey solutions for substations ranging from 25kV-765kV with projects ranging from MUSD \$1-\$65. Our substation solutions include the traditional stick-built AIS substations as well as a variety of modular approaches and other solutions that include some innovative equipment including our GIS.

In the booth, we have an example of a typical AIS modular substation installation as well as representatives to meet and discuss solutions to your need.

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Robotics

ABB is a leading supplier of industrial robots, modular manufacturing systems and service. A strong solutions focus helps manufacturers improve productivity, product quality and worker safety. ABB has installed more than 160,000 robots worldwide.

The robotics booth will demonstrate robotic applications in the metal fabrication industry. Stop by and see how robotic

applications can reduce your downtime, minimize injuries due to repetitive motion, and save energy costs all while increasing quality and productivity.

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Totalflow

ABB Totalflow products present a complete solution for Oil & Gas Production Automation, Gas Gathering Measurement, Pipeline Monitoring and Gas Distribution Energy Control. The XSeries Flow Computers and Remote Terminal Units provide API 21.1 Custody Approved Measurement with Input/Output signal modules for Controlling & Monitoring of valves, compressors and production equipment. The LevelMaster provides highly precise liquid level measurement in oil, water, petrochemical and other storage tanks. This allows for tracking inventories, preventing spills, automating processes, improving transportation logistics, and more. The NGC Gas Chromatograph is our newest analyzer and offers a complete Energy Meter in one product demonstrating the capability of doing a full Gas Analysis

and Flow Measurement in one instrument. The Total Overview and Asset Management of Production and Energy resources are made possible with Totalflow SCADA Advantage Software.

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Chemical and Life Sciences

"One vendor...one technology" is ABB's Chemicals and Life Sciences industry message. Our booth will feature information on industry-targeted solutions supporting Ethanol, GMP requirements, Facility Automation, integrated analytical data and API manufacturing with Batch Management. These solutions will all be shown using a single framework as its backbone. Having this common framework reduces costs of training, documentation, maintenance and engineering. This all leads to simplified regulatory compliance, saving money and time. Please be sure and visit us.

ABB's Industrial IT for PAT

A successful Process Analytical Technology system, capable of supporting a Quality by Design approach, requires more than a collection of analyzers, models, historians and control systems. It has to integrate system operations, manage data and ensure proper communication.

Effective PAT solutions fully integrate system operations from analyzer to data manager. They must interface with multiple vendor analyzers and control systems and must store spectral and scalar data into a central relational database. An ideal PAT solution that performs these functions is cost effective and meets all regulatory requirements without requiring an extensive validation effort.

ABB's IIT for PAT is a robust system that meets these requirements, with lower costs needed to design, setup, validate and maintain. Savings are achieved using reusable, configurable library modules, mature and proven technology and built in interfaces. The result is a scalable, cost effective, fully integrated solution that supports PAT at all levels, from process monitoring and reporting to real-time product release.

Featured:

- Industrial IT for PAT Demonstration
- Analytical Measurement
- Multivariate Analysis
- Data Management
- Solution Compliance

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Crane Systems

With our solutions you can start simple and work your way up, modernizing existing installations - or start at the top and stay there. We look forward to working together with you on both new crane projects and upgrades.

ABB Crane Systems has extensive experience and expertise in handling complex and global projects. We provide dedicated services and support for the long-term performance and availability.

The Advant® Crane Control Systems is designed to handle all aspects of the crane, from a basic drive and control package to a fully automatic, unmanned and remotely operated cranes. The system provides you with:

- Availability
- Productivity
- Safety
- Low operational costs
- Future-proof investments

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Marine

ABB Marine is the leading manufacturer of electric power and propulsion systems. We are a global maritime organization, providing reliable, safe and environmentally friendly solutions and qualified services to reduce operational costs and ensure optimum vessel lifecycle for our customers.

The preferred choice for an increasing number of vessels types:

ABB is the world leader in electric propulsion and offers a full range of systems – from variable speed electric machinery for shaftline propulsion and mechanical thrusters to a unique family of podded propulsion systems.

Through our worldwide operations, we obtain first-hand knowledge of user requirements, and our systems represent the accumulated experience we have gained through more than 60 years of close cooperation with shipbuilders, operators and designers.

Electric propulsion is well established in many ship segments and is emerging in several new ones. The ever increasing demands on safety, reliability, operational economy and environmental performance are the driving force behind the growing number of vessel types investigating and selecting the advantages of electric propulsion.

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Turbocharging

ABB Turbocharging is the world leader in turbocharging diesel- and gas engines in the 500 kW plus power range. Worldwide, more than 180,000 ABB turbochargers are in operation - on ships, in power stations and gensets, on diesel locomotives and in large off-highway trucks. A global network of more than 90 service stations ensures close proximity to our customers and fast, top-quality service around the clock.

A lifetime of professional support:

By choosing ABB turbochargers, our customers profit from efficient, effective and enduring state-of-the-art technology; it is an investment they know will pay dividends. A turbocharger will require service and maintenance over its lifetime. And who does the work when it becomes due is something we feel strongly about. That is why, over the years, we have built up our own global service network, to be there for our customers at all times, wherever they are.

Turbocharger service from ABB means being able to get expert advice when you need it:

It means you can rely on a service station being close by, on spare parts being available, and that the standards and work practices are the same wherever in the world you are. In this way we support one of our customer principal goals: minimization of unproductive downtime and trouble-free turbocharger operation, as the key to optimum engine power output.

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Minerals, Metals and Mining

ABB provides complete electrical and control equipment solutions for Metals; Minerals; Mining; and Cement plants as well as gearless mill drive applications and knowledge-based solutions for process optimization and information management. Based upon customer requirements, ABB develops process solutions that work smoothly and efficiently, based on our solid, world-wide experience in the industry. As a leading global manufacturer of industrial electrical equipment, ABB has an intimate, working knowledge of the technologies that make up the plant. ABB is your single, responsible source for your plant engineering and hardware needs.

Highlights for 2008:

The ABB SpectraFlow CM100 on-line bulk analyzer, powered by SOLBAS, offers a reliable and accurate elemental, oxide composition, and mineral phase analysis for control of consistent stockpile and raw mix composition. The combination of control software, together with the SpectraFlow CM100, improves kiln efficiency, reduces CO2 emissions, and minimizes production costs. The SpectraFlow CM100 provides a fast, precise, second-by-second analysis throughout the cement manufacturing process, without the use of hazardous materials like radioactive sources, neutron generators, or x-ray tubes.

The ABB Expert Optimizer provides the ability to reach high levels in process optimization by implementing the optimal control and optimization strategies. Optimize IT Expert Optimizer adds value to the operational performance by reducing variability and, bringing processes closer to its operational limits. Optimize IT Expert Optimizer provides unmatched performance by:

- Tirelessly supervising critical control magnitudes
- Consistently taking the best decision
- Executing frequent small changes, as opposed to large infrequent ones
- Immediately recognizing abnormal conditions and acting accordingly

Optimize IT Expert Optimizer helps the plant management to reach its profitability and sustainability goals. For a number of applications, including all relevant ones in cement such as kilns, raw mix and grinding mills, ABB has proven process optimization strategies that are tuned to match the characteristics and needs of the customer site.

Contact Information:

Frank Smith
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Oil and Gas

Picture in your mind a well integrated SCADA system for your Oil & Gas application - - Then see it here! Connect it all together with intelligent telecommunications with the new Natural Gas Chromatograph and RTU connected to ABB SCADA Advantage on the Enhanced Operator Workplace. Have Slugging Problems with your offshore wells? ABB Active Flowline Control can solve it, come and see the functioning demonstration system.

Highlights for 2008:

Onshore & Offshore Oil & Gas Applications

Contact Information:

USA:
Buddy DeVoe
Phone: +1 713-821-8292
Email: buddy.a.devoe@us.abb.com

Mexico:
Joseluis Anaya
Phone: +52 55 5329.4655
Email: Joseluis.Anaya@mx.abb.com

Canada
Marcus Toffolo
Phone: +1 403-212-2057
Email: marcus.g.toffolo@ca.abb.com

Power Generation

Increase the productivity and profitability of your plant, water/wastewater facility, or industrial power house by using the latest technology DCS. Whether extending the life of your existing system or in the market for a new platform, ABB, Power Systems has the answer all the integration tools you need. Visit our booth to see and experience these state of the art controls and applications.

- System 800xA
- Engineering Tools
- Electrical Connectivity
- Turbine Controls (Including Hydraulics)
- Combustion Instruments
- Optimization

Highlights for 2008:

MCM 800 Condition Monitoring Technology

Contact Information:

Andy Gavrilos
Manager of Marketing
Phone: 440-585-8484

Pulp and Paper

As part of ABB's Industrial IT for Papermaking, a suite of solutions specifically designed for the needs of today's papermakers, we will be featuring:

- Distributed Control for Papermaking
- Quality Control Systems and Actuators
- Drives Systems
- Web Inspection Systems
- Collaborative Production Management Solutions

In the booth, a live demonstration system will show the value that integration brings to a mill. Papermakers around the world are successfully evolving their existing automation systems, both ABB and competitive, into the 800xA architecture. By having the vision of fully integrated automation, they are achieving true savings, from - design and commissioning through -operation, optimization and maintenance. Come see how ABB's Pulp and Paper Division can improve your mill.

Highlights for 2008:

ABB's Pulp and Paper Division will feature the latest automation for the pulp, paper and tissue industries. Each of our featured business groups will display the latest releases of their industry leading solutions. Quality Control Systems will feature our new Network Platform Scanner, with a new electronics package that provides enhanced measurement and diagnostics capabilities. Also exhibited will be ABB's CD actuator line up, including solutions for weight, moisture, coating, caliper and finishing control. Drives Systems will exhibit a full drives section to show the most current innovations in paper machine drives for both AC and DC systems. Also featured will be innovations in Direct Torque control and Direct Drives applications. The Web Inspection group will display a newly released camera for web defect monitoring. The new camera has the best capabilities currently available on the market for detecting of holes, spots, streaks and other defects. Also available to try out: the latest in defect classification. The Collaborative Production Management group will be demonstrating Smart Client, a new application providing simple and quick display access to the integrated information of 800xA Process Portal via thin client technology.

Contact Information:

Distributed Control Systems

Email: Gregg.Neumann@us.abb.com
Phone: +1 708-557-0396

Email: Keith.R.Masters@us.abb.com
Phone: +1 830-456-7854

Quality Control Systems and Actuators

Email: Andy.Broomfield@us.abb.com
Phone: +1 804 314 1930

Email: John.Spachman@us.abb.com
Phone: +1 850-937-9006

Drives Systems

Email: Tero.Huhtanen@us.abb.com
Phone: +1 614-818-6454

Web Inspection Systems

Email: Mike.Hewett@us.abb.com
Phone: +1 770-640-0590

Smart Client

Email: Marc.Leroux@us.abb.com
Phone: +1 614-818-6378

All other questions

Email: David.Reed@us.abb.com
Phone: +1 614-818-6461

BusinessOnline

In today's fast pace world, limited time is available for time-consuming procurement processes. Learn how ABB BusinessOnline delivers a collaborative environment for quick and stress-free information & product acquisition services. BusinessOnline provides an easy to use online interface to ABB Products, Parts, Repair and Warranty order processing. Internet accessibility and easy to navigate tools provide 24-hour access to order entry and tracking capabilities through a standard web browser and secure log-in. BusinessOnline's time saving features include product information, documentation, stock availability, and order tracking history for multiple product groups/locations and customized product listings.

Contact Information:

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Phone: +41-43 317 3492 (direct)
Phone: +41-79 504 9028 (mobile)

ABB Service

Stop by the ABB Service Booth to learn more about available services for your industry. Discover how you can improve operational performance and reduce maintenance costs throughout the entire plant lifecycle with ABB Reliability Systems, ABB Reliability Consulting, ABB Full Service®, and asset optimization and maintenance services.

Highlights for 2008:

- ABB Reliability Fingerprint consulting service benchmarks your site against industry best practices for productivity and reliability. The Fingerprint identifies and documents site opportunities for improvements in Overall Equipment Effectiveness (OEE), maintenance performance and reliability culture.

Enter to win a Complimentary ABB Reliability Fingerprint for Your Site. (Value up to 30k)

- ABB Optimization Services use a proven, continuous improvement methodology, special tools, and knowledge of your system and processes to identify valuable improvement opportunities.
- Remote Diagnostic Services demonstration - ABB combines remote connectivity with an established technical support infrastructure to offer three levels of remote service to best match your asset maintenance requirements. Stop by for details.
- Control System Evolution Services – Offers control system lifecycle management. Automation Sentinel subscription program provides software product version upgrades, evolution to current technologies, and online downloading of new software versions and product documentation.

Enter to win a Complimentary Automation Sentinel software subscription. (Value up to \$20k)

Speak with representatives from all areas of service including parts, repair, technical support, product evolution and upgrades, field service, and training organizations. For additional information regarding these and other ABB Services, contact the ABB North America Customer Service Center

Contact Information:

North America Customer Service Center
Phone: +1 800-HELP-365 (+1 800-435-7365)
Dial OPTION-0 for Service Information.
Phone: +1 440-585-7804 (Outside of Canada and the USA)

ABB Reliability Services

ABB Reliability Services offers a portfolio of performance-based services that drive business profitability through improved maintenance and reliability. Whether you are looking to strengthen reliability fundamentals, would like world-class insights to help compare and improve your plant, or want to partner with a company that contractually commits to improving Overall Equipment Effectiveness (OEE), ABB Reliability Services can help accelerate your business success.

- Reliability Systems - ABB's PM30 Hosted Maintenance Management Service is the essential foundation for a successful maintenance and reliability program. Implemented in as few as 90 days, PM30 enables you to increase plant productivity through improved preventive maintenance compliance and make better informed decisions with more complete and consistent information.
- Reliability Consulting utilizes a proven World-Class Reliability® (WCR) Benchmark to identify your plants' performance strengths and recognize opportunities

for improvement. The WCR, coupled with ABB best practices, delivers an actionable roadmap of recommendations for improving the financial value maintenance operations contributes to your organization. ABB can also help implement and optimize your SAP-PM or Maximo investment and, through training, improve your most valuable reliability asset: your people.

- ABB Full Service® is a complete partnership where ABB shares risk and assumes full responsibility of customers' maintenance operation by contractually committing to performance improvements, such as increased Overall Equipment Effectiveness and reduced Total Maintenance Costs.

Highlights for 2008:

ABB Reliability Fingerprint

Contact Information:

North America Customer Service Center

Phone: +1 800-HELP-365 (+1 800-435-7365)

Dial OPTION-0 for Service Information.

Phone: +1 440-585-7804 (Outside of Canada and the USA)

Partnership Focus: Technology Partners

The Center for Operator Performance

The Center for Operator Performance (COP) is a collaboration between operating companies, control system suppliers and academia. It focuses on a broad range of operator performance issues, including display design, alarm management, education and training, early event detection and job aides. The COP's primary goal is to conduct research that enables companies to make more informed cost/benefit decisions regarding operator performance. By sharing the costs of this research, benefits can be obtained at a fraction of the cost an individual company would incur.

Exhibit Abstract:

Theoretical and applied research has been conducted on human performance over the past 60 years, generating a considerable body of data, principles, and accepted practices. However, the bulk of the research has been related to military and aerospace applications. How

applicable are the data and principles to process control? The Center for Operator Performance was created to answer this and other questions on human factors in the control of process plants and pipelines. Leading researchers in human factors work with operating companies to identify and conduct studies to answer questions of generic interest in human control of complex systems. The COP will present its latest findings and discuss future initiatives.

Web Site: www.operatorperformance.org

Contact Information:

Beville Engineering, Inc.

7087 Corporate Way

Dayton, OH 45459

Phone: +1 937-434-1093

Fax: +1 937-434-8809

Email: lvia@operatorperformance.org

G. Michaels Consulting

Since 1974, GMCL has specialized in software support of process control systems. Developed over the last ten years out of experience with software-based process control systems, DBDOC has become their flagship product. Installed worldwide, DBDOC is currently used in over 300 sites on five continents.

Exhibit Abstract:

GMCL's will be displaying their new interface for DBDOC to ABB's INFI 90, Harmony, and Symphony systems based on ABB's Sem API.

Web Site: www.gmcl.com

Contact Information:

G. Michaels Consulting Ltd.

Geoff Michaels, President

11211 - 76 Ave. NW

Edmonton, Alberta

Canada, T6G 0K2

Toll Free: +1 866-438-2101 in U.S. and Canada

Phone: +1 780 438-2101 outside U.S. and Canada

Fax: +1 780 437-3367

Email: geoff@gmcl.com

Grace Engineered Products

Grace Engineered Products' focus is electrical safety which is a concern of every electrical user, integrator, and machinery builder due to the Arc Flash Standard (NFPA 70e) and the latest NFPA 79 that is calling for GFCI protected utility electrical outlets in or on electrical panels.

Exhibit Abstract:

On display will be a variety of program interface ports, their exclusive inside outlet GFCI receptacles, and voltage vision and CHEK/VOLT voltage warning & mechanical Loto devices – all for mounting on electrical cabinets – all NFPA 70e & 79 compliant.

Web Site: www.grace-eng.com

Contact Information:

Grace Engineered Products, Inc.
5001 Tremont Avenue
Davenport, Iowa 52807
Toll Free: +1 800-280-9517
Phone: +1 563-386-9596
Fax: +1 563-386-9639
Email: sales@grace-eng.com

Hirschmann Automation and Control

Hirschmann Automation and Control, a Belden company, is the leading manufacturer of industrial networking equipment intended for harsh environments that require high network availability. The products that Hirschmann develops and manufactures consist of DIN rail mount compact and modular switches (both Layer 2 and 3 – up to 28 ports, including Gigabit), firewalls, wireless access points/clients and copper to fiber media converters. The product offering even spans to include 19" rack-mount modular switches for both plant backbone and enterprise switches. In support of the products, Hirschmann also offers network management software and a broad offering of networking services for network design, installation, troubleshooting, and training.

Exhibit Abstract:

An extensive offering of industrial Ethernet switches will be shown, along with hands-on demonstrations of switch management capabilities and access to highly trained networking personnel. We welcome any networking applications that you would like to discuss.

Web Site: www.hirschmann.com

Contact Information:

Hirschmann Automation and Control, Inc.
1540 Orchard Drive
Chambersburg, PA 17201
Phone: +1 717-217-2200
Fax: +1 717-217-2279
Email: ethernet@hirschmann-usa.com

IBM

With business experts in more than 160 countries and the industry's most advanced information technologies, IBM helps businesses innovate. Our team combines technology leadership with deep business process insight and industry expertise to deliver a strategic vision, drive business success and enhance enterprise value for our clients. We draw on the full breadth of IBM capabilities, standing behind our advice to help clients implement solutions designed to deliver business outcomes with far-reaching impact and sustainable results.

As leaders in our respective industries, IBM and ABB have teamed up to provide solutions that help companies

transform their operations and workforce. We deliver integration services - whether in an oil field, refinery or chemical plant - that enables you to make more informed and faster decisions with increased collaboration and visibility. Our Production Design and Operations Scheduling (PDOS) application, combined with ABB's Metals and Mining capabilities, enables companies to tackle complex optimization problems. Please stop by the IBM booth and the ABB Metals booth to see how these solutions can transform your business.

Contact Information:

Teresa Stephens
Email: tstephens@us.ibm.com

Web Site: www.ibm.com

Intergraph Process, Power and Marine

To gain the competitive edge, clients are choosing Intergraph's SmartPlant 3D, the first innovation in 3D modeling for our industry in 20 years. With the SmartPlant Enterprise, you can execute your projects faster and better without sacrificing quality. For handover, operations, and maintenance, we provide seamless support of a common workflow, reducing your CAPEX and increasing ROCE. Intergraph continues its longstanding commitment to openness and interoperability by embracing standard database technology, setting standards in high value workflows and making them available to industry.

Exhibit Abstract:

Stop by and discuss the benefits of Intergraph's SmartPlant Enterprise for Operations & Maintenance solutions together with ABB's 800xA System. Learn how this collaboration

can result in significant ROI gains in CAPEX projects or management of change issues in Brownfield operations, such as positively impacting your project schedules and reducing time to market. The integration of SmartPlant for Operations & Maintenance with the 800xA System also eliminates the need for significant amounts of data re-entry and conversion during a project's information handover stages and ensures systems are continually synchronized with the most recent data throughout the plant life cycle.

Web Site: www.intergraph.com

Contact Information:

Frank Joop
300 Intergraph Way
Madison, AL 35758 USA
Phone: +1 800-260-0246
Phone: +1 256-730-3256

Matrikon

Matrikon is a leading provider of integrated industrial intelligence products for the continuous process enterprise. Matrikon's products promote safe, reliable operations and support your vision for operational excellence by enabling production management, asset performance and operations optimization initiatives. Only Matrikon offers a complete suite of products that spans planning, tracking, monitoring, reporting and optimization for your operations enterprise, from plant assets to people to processes. With a strong focus on alarm management, production management, condition and performance monitoring and process visualization, Matrikon products are designed to take real-time operational data, turn that data into actionable knowledge, and translate that knowledge into profit.

Exhibit Abstract:

Matrikon showcases Alarm Management products and services. Learn about the ISA SP18.02 standard, how it may impact your organization, and how to adopt a

successful Alarm Management lifecycle by becoming AMSS certified. Manage your alarms using a low-cost adoption model achieved through ease-of-use.

Matrikon will highlight "AlarmInsight for ABB System 800xA". This was co-developed by ABB and Matrikon to put Alarm Management data directly into the hands of the people who need it most. AlarmInsight allows users to access Alarm history, alarm Key Performance Indicators, and operator assistance documentation through your existing System 800xA displays.

Web Site: www.matrikon.com

Contact Information:

Matrikon Head Office
Suite 1800
10405 Jasper Ave
Edmonton, AB T5J 3N4
Canada
Toll Free: +1-877-MATRIKON
Phone: +1 (780) 448-1010
Fax: +1 (780) 448-9191

Matrox Graphics

Founded in 1976, Matrox Electronic Systems has over 30 years of experience building award-winning products and solutions designed to meet our clients' diverse needs in the high-technology industry. Privately held, the company employs over 800 people world wide at its headquarters in Montreal, as well as in international offices in the United States, the United Kingdom, Ireland, Germany, Italy and Hong Kong. Matrox Graphics Division provides hardware and software solutions that are renowned for their technical innovation, reliability and focus on productivity enhancements. They are the leader in multi-display graphics solutions for desktop and laptop PCs.

Exhibit Abstract:

Recent advances in multi-display graphics hardware and software have introduced new possibilities for the customization of operations in the control rooms of today

and of the future. Matrox offers multi-display add-in cards, remote graphics units, graphics expansion modules, and display wall controller products. Matrox will showcase how some of these technologies can be tied together to reduce the need for expensive collaborative display technology and cabling, decrease noise and temperature levels in control rooms, increase the scalability and flexibility of operator station layouts, increase responsiveness to operator console systems and reduce disruptions.

Web Site: www.matrox.com/graphics

Contact Information:

Matrox Graphics Inc.
1055 St. Régis Blvd.
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H9P 2T4 Canada
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Email: lstewart@matrox.com

Metal Systems

MSI designs and builds world class protection solutions for your electrical/electronic equipment and personnel. These solutions can be in the form of custom electrical enclosures & consoles, Equipment Centers (large metal shelters up to 40'-0" wide and 200'-0" long) or Operator Centers (metal shelters typically manned with a view of the exterior processes), each with the environmental protection / HVAC /pressurization / filtration and other required protection included in the design. Between our Houston, TX and Chattanooga, TN facilities, we have successfully placed well over 5,000 Equipment Centers all around the world for our customers, over the last 30 years.

Exhibit Abstract:

As our products are quite large for most exhibition booths, MSI's display will include photographs and a PowerPoint show of our manufacturing facilities in Houston and Chattanooga, as well as sample Equipment Center, Operator Center and custom enclosure designs.

Web Site: www.equipmentcenters.com

Contact Information:

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Email: tbigger@equipmentcenters.com

Microsoft

Microsoft focuses on providing the standard, reliable, cost-effective tools that create a solid foundation for industry-specific applications. Because we offer strong performance and high value in products like Microsoft SQL Server, Microsoft Exchange Server, Microsoft BizTalk Server 2004, and Microsoft Office, our partners can focus on what they do best: using the Microsoft platform to create state-of-the-art work management, SCADA, LIMS, ERP, and production process control systems. What this means for manufacturers is that they get higher quality applications more quickly and economically, enabling them to compete more successfully in the global marketplace.

Exhibit Abstract: Microsoft will be presenting a session entitled "Microsoft Silverlight: Next Generation of Rich Media Experiences and Interactive Applications for the Web" during Session 2 on Tuesday April 29th. If you would like to meet with Microsoft, please attend this session.

Web Site: www.microsoft.com/manufacturing

Contact Information:

Microsoft Corporation
One Microsoft Way
Redmond, WA 98052-6399
Phone: +1 800 642 7676
Fax: +1 425 936 7329

MTL Instruments/Byres Security

MTL is a world leader in the design and development of interfacing equipment for the process control and telecoms industries. In particular, MTL are leaders in fieldbus physical layer technologies such as power supplies and wiring components; in Industrial Network devices for both safe and hazardous areas; in Network Security techniques to help protect your critical processes and in industrial grade visualization terminals and PC's.

Exhibit Abstract:

MTL is exhibiting the latest fieldbus physical layer devices and diagnostics equipment along with the very latest in intrinsically safe Ethernet equipment to deliver and retrieve

your data from Zone 1 hazardous areas. Also on display is MTL's range of IS isolators and barriers along with HART interfaces and Remote I/O products.

Web Site: www.mtl-inst.com

Contact Information:

MTL Incorporated
Corporate Headquarters
9 Merrill Industrial Drive
Hampton, NH 03842
Phone: 800-835-7075
Toll Free: 603-926-0090
Fax: 603 926 1899
Email: info@mtlnh.com

Panasonic Computer Solutions

Panasonic provides components and design solutions to leading manufacturers in the electronics, computer, communications, and home appliance industries, among others. Panasonic can meet your specific design needs, wherever in the world you manufacture.

Exhibit Abstract:

Most new automation control systems have a wealth of information and act as information hubs providing much more than numeric process data. This extension to the traditional automation view, along with the availability of

wireless, rugged computer technology, helps manufacturers reach their operational excellence goals. Panasonic will be displaying examples of available rugged PC technology and how they can be used with automation systems to improve operations, maintenance, and engineering.

Web Site: www.panasonic.com/industrial

Contact Information:

Panasonic Computer Solutions Company
10035 SW 141st Ave
Beaverton, Oregon 97008
Phone: +1 503-590-6095

Pepperl+Fuchs

Pepperl+Fuchs is a worldwide supplier of interface equipment for ABB. We specialize in the design and manufacture of equipment for hazardous locations in the oil & gas, chemical, petrochemical, pharmaceutical, waste water and power industries. We are the worldwide leader for intrinsic safety equipment, fieldbus interface hardware, purge & pressurization systems and corrosion monitoring transmitters. Our HART interface equipment and newly released line of visualization hardware is used extensively in the process automation industries served by ABB. As an international organization, we are focused on providing expert service and support throughout the world and are committed to satisfy the needs of our customers.

Exhibit Abstract:

We will be exhibiting our FieldConnex line of fieldbus interface products including our industry leading High Power Trunk concept and advanced diagnostic module

(ADM) solutions. ADM will provide all fieldbus users with the means to analyze, monitor and troubleshoot their fieldbus network live. Our extensive line of intrinsic safety barriers will also be on display and will be highlighted by our new slim-line barriers. The thinnest isolator on the market for customers requiring single-loop integrity. We will also display our line of HART multiplexers and interface boards, Type X, Y, Z, Exp and nP purge systems and CorrTran on-line corrosion transmitter.

Web Site: www.us.pepperl-fuchs.com

Contact Information:

Pepperl+Fuchs, Inc.
1600 Enterprise Parkway
Twinsburg, OH 44087
Phone: +1 330-425-3555
Fax: +1 330-425-4607
Email: sales@us.pepperl-fuchs.com

Powerohm Resistors

Powerohm Resistors, the fastest growing independent power resistor manufacturer in the USA, manufactures a complete line of quality resistor products. With over 70,000 square feet of manufacturing space in Katy, Texas and northern Kentucky our capabilities offer over 100 years of collective engineering expertise in the design and application of power resistors.

From DB Resistors for VFD's and Servo Drives, to replacing old wound rotor resistors, Powerohm has a complete portfolio of application and library available. With Powerohm's Case, Edgewound, Grid, Ribbon and Smoothwound products, natural convection or forced air, Powerohm is your quality and on-time resistor source.

Exhibit Abstract:

Powerohm Resistors will be displaying Dynamic Braking Resistors, Modules, and Analyzers for ABB's ACS150, 350, 550 and 800 series of variable frequency drives. Indoor and outdoor units will be shown including both edgewound and wirewound type. Powerohm will also display the recently UL-listed type CR case resistors for light duty micro drive applications as well as Neutral Grounding Resistors.

Web Site: www.powerohm.com

Contact Information:

Powerohm Resistors, Inc.
5713 13th Street
Katy, Texas 77493
Phone: +1 800-838-4694
Fax: +1 859-384-8099

Trans-Coil

Trans-Coil is the leading provider of peripherals for AC and DC drives. Trans-Coil's products include line reactors, harmonic trap filters, drive output filters, tuning reactors, RFI filters, multi-pulse transformers, harmonic analyzer software and other high quality products that increase the value and improve the overall system performance of power inverters. Since 1971, their products have been designed and built in Milwaukee, Wisconsin, by people who understand drives and the special needs of this marketplace.

Exhibit Abstract:

The TCI exhibit will focus on the application of peripheral products with variable frequency drives. On site, a typical panel including an HG7 harmonic filter and a V1k long lead filter will be available for a hands-on experience. The Analyzer Software will also be on hand to allow for a quick estimation of the type of harmonic mitigation that an installation may require.

Web Site: www.transcoil.com

Contact Information:

TRANS-COIL, INC.
7878 North 86th Street
Milwaukee, WI 53224
Phone: +1 414-357-4480
Fax: +1 414-357-4484

TURCK Process Automation

TURCK is a leading manufacturer of products designed for factory and process automation industries that uphold uncompromising standards for reliability and functionality. TURCK's extensive line of products includes advanced sensors, measurement, instrumentation, connectivity, interface and networks that meet clients' application demands.

Exhibit Abstract:

TURCK will be displaying its new DPC-System (Diagnostic Power Conditioner) which is a FOUNDATION Fieldbus power supply for installation on H1 segments. It provides comprehensive diagnostic functions for the monitoring

of FOUNDATION Fieldbus physical layer and supports asset management in collaboration with ABB for the entire system.

Web Site: www.turck-usa.com

Contact Information:

TURCK Inc.
3000 Campus Drive
Plymouth, MN 55441
Phone: +1 763-553-7300
Toll Free: +1 800-544-7769
Fax: +1 763-553-0708

Westermo

Westermo has been developing and producing data communications solutions for nearly three decades. Today, they have a unique position in the industrial marketplace with a product range that is the widest available. Beginning with simple twisted pair line drivers, the product line encompasses industrial Ethernet converters, switches and routers, remote access telephone modems, cellular/GSM wireless data transmission, modems, industrial fiber optics converters and manufacturer specific protocol converters. Westermo wants to be your preferred supplier of industrial data communication equipment.

Exhibit Abstract:

Centered on ABB's AC800M processor, Process Panel operator interfaces and Compact Control Builder software products, the Westermo display will demonstrate remote access and programming using both wired phone lines and

wireless GSM service. An additional display will incorporate Westermo's Industrial IT enabled Ethernet switches in a redundant ring configuration showing the FRNT solution (Fast Re-Configuration Network Topology) and why it is faster than the Spanning Tree or Rapid Spanning Tree solutions currently available. Additional Industrial IT enabled solutions for Profibus and Fiber Optics will also be on display.

Web Site: www.westermosales.com

Contact Information:

Westermo / Gross Automation
1725 South Johnson Road
New Berlin, WI 53146
Phone: +1 262-446-0000
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Email: sales@grossautomation.com