

# ValueStream™

Rockwell Automation Global Manufacturing Solutions™

## MANAGING ASSETS

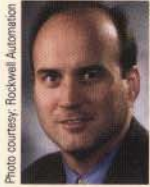


Photo courtesy: Rockwell Automation

*There's a quiet revolution under way in a very old industrial discipline. The necessity of ongoing*

*equipment maintenance is a tried-and-true practice in manufacturing, but technology is now making it possible to move that discipline forward in new and exciting ways.*

*The 1990s notion of enterprise asset management, which championed predictive analysis and proactive maintenance, is now evolving to a broader notion of asset life-cycle management, often conducted remotely, for a wider range of factory and plant assets. Today, the old notion of maintenance has become a strategic business opportunity to affect plant uptime, influence bottom-line performance, and improve customer satisfaction.*

*Case studies in this issue on FedEx, Finch Pruyn, Atlantic Copper, and Clow Water all attest to the new mindset now developing in manufacturing. It's a mindset that says, "Let's use new technologies, services, and training strategically" to run the business.*

*Asset management is anything but routine these days. Welcome to the new world.*

*As always, I welcome your comments and observations.*

**John McDermott**

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## Cover Story

# FedEx Delivers on the Human Element of Asset Management

Shipping giant FedEx Corp. is often held up as a model of a world leader when it comes to using technology to build a better business. All you have to do is look at the company's Memphis hub alone to gain insight into how advanced a company it is where automation is concerned. The 7x24 Memphis operation houses hundreds of miles of conveying systems and about 30,000 pieces of equipment and control technology used to move packages. The sorting design routes 1.3 mil-



Photo courtesy: Federal Express

**The FedEx Express fleet, shown here at the main hub in Memphis, is comprised of more than 650 aircraft.**

lion packages to the right plane in a fleet of over 100 aircraft that depart nightly. Tom Banning, managing director of corporate facilities management for FedEx in Memphis, has the hefty responsibility of ensuring that the sorting equipment in this process remains reliable. "We are expected to perform 100% every night. We have no

downtime that we can absorb," he says. That's a high precedent to set, but downtime is costly. "When equipment fails we are measured in increments of one minute delays...One minute of delay causes a ripple effect across multiple aircraft and multiple markets."

Banning is realistic about the situation. Equipment goes down, sometimes even with the best preventive

## Using Prognostics to Avert Potential Failures

Dr. Jay Lee and his research assistant, Dr. Hai Qiu, discuss how prognostics can help companies better predict and prevent system failures. **Page 3**

## Finch Pruyn Saves \$200,000 With Continuous Support Service

Paper products maker Finch Pruyn uses Rockwell Automation In.Site Continuous Support for real-time remote monitoring and diagnostics. **Page 4**

## Plant Asset Management Gains Ground

A new report details growth in the plant asset management and condition monitoring market. **Page 5**

## Atlantic Copper Saves \$700,000 With Strategic Maintenance

To become more proactive about maintenance, Atlantic Copper implemented a strategic maintenance project with help from Rockwell Automation. **Page 6**

## Clow Water Achieves 98% Uptime With Maintenance System

Rockwell Automation provided the hardware and software that enables Clow Water to comply with EPA emissions standards and increase uptime. **Page 7**

## RSMACC Provides Integrated Information

Rockwell Software Maintenance Automation Control Center helps plants and factories avoid downtime. **Page 8**

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