

**CRI CATALYST COMPANY AND PAVILION TECHNOLOGIES  
RELEASE CATSCAN® VERSION 2**

*One-of-a-Kind Catalyst Performance Monitoring Solution  
Reduces Operating Costs for Styrene Manufacturers*

AUSTIN, Texas – October 18, 2004 – At CRI's Global Styrene Conference in Estoril, Portugal, CRI Catalyst Company and Pavilion Technologies announced the availability of CATSCAN Version 2. CATSCAN is a real-time catalyst performance monitoring system that combines CRI's catalyst expertise with Pavilion's advanced predictive modeling technology. The only product of its kind on the market, CATSCAN improves operational performance, predicts catalyst life and reduces production costs for styrene manufacturers.

"The latest version of CATSCAN incorporates feedback from customers to deliver additional key benefits for styrene producers," said Jim Wambaugh, director of CRI's styrene business unit. "We have taken a industry leading solution and made it even better."

Since initially releasing CATSCAN in 2002, companies like ATOFINA, CBE, GPPC, Huntsman, Shell Canada and Sterling Chemicals have elected CATSCAN to gain real-time insight into how their production decisions impact catalyst life.

"The CATSCAN software is like having a CRI catalyst expert right on-site to identify best operating parameters and spot key trends," said Huntsman Australia's ethyl benzene and styrene monomer manager. "With our remote location this is a key benefit. And if I need deeper analysis, I can quickly export my performance data from CATSCAN and send it to CRI to expedite their study."

The latest version of CATSCAN incorporates new features requested by customers, including:

- E-Mail notification if process is approaching a key limit or on application status
- Instant access to daily averages and historical trends
- Enhanced plot functionality like zooming and printing to aid in deeper analysis
- Support for 2 and 3 reactor systems
- Calculation engine upgraded to version 7.0 of Pavilion's flagship predictive analytics and control software

CATSCAN Version 2 is included as a standard part of CRI's technical performance package for new customers. Existing customers will receive the new version as a standard upgrade. CRI's technical support team also uses CATSCAN remotely to perform the same analysis with off-line data, reinforcing the company's commitment to the technology and the added insight it provides.

"With CATSCAN, styrene producers cut the cost and lag times of traditional reactor performance analysis techniques," said Vice President of Business Development Greg Jackson. "Best practices are identified and troubles spotted sooner, so engineers can make faster, more profit-driven decisions."

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CRI Catalyst sells and markets the CATSCAN software as part of its styrene catalyst technical performance package. Pavilion will continue to provide technology updates and support to customers through CRI. To learn more about CRI, visit the Web site at: <http://www.cricatalyst.com>.

### **About CRI Catalyst Company** ([www.cricatalyst.com](http://www.cricatalyst.com))

CRI Catalyst Company (CRICC) is part of CRI International, the global catalyst technology company of the Royal Dutch / Shell Group. CRICC operates research laboratories, development facilities, manufacturing plants and business units throughout the world dedicated to providing a broad customer base with the most effective and cost-efficient catalysts and technologies. Specific areas of focus include hydrogenation, oxidation, dehydrogenation and environmental catalysts and systems. Fully integrated technical service and support groups further enhance the customer value of CRICC's products, and facilitate creative solutions to the most difficult customer problems.

### **About Pavilion Technologies** ([www.pavtech.com](http://www.pavtech.com))

Pavilion Technologies is the leading developer of advanced process control (APC) and environmental compliance solutions. Pavilion's ValueFirst™ customer relationship methodology aligns the company's people, products and processes to deliver rapid and recurring value for their customers. More than 350 leading companies worldwide, including ATOFINA, BP, Eastman Chemicals, Fonterra, Nestlé and Weyerhaeuser depend on Pavilion's solutions to increase yield, enhance product quality, reduce variable costs and achieve environmental compliance each day. Pavilion Technologies is a privately held company based in Austin, TX, with offices serving every region of the world.

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