



## FOR IMMEDIATE RELEASE

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## Shell Chemicals Installs CATSCAN to Improve Catalyst Performance

CATSCAN was Co-developed by CRI and Pavilion Technologies

**AUSTIN, Texas — June 18, 2003** — CRI Catalyst Company and Pavilion Technologies, Inc. have completed installation of their CATSCAN® catalyst performance modeling system at Shell Chemicals Canada Ltd. Shell Chemicals Canada manufactures more than 450,000 metric tons annually of hydrocarbon solvents at its Scotford facility in Fort Saskatchewan, Alberta. This facility is owned by Shell Chemicals Canada Ltd., which is one of the operating companies that is part of the group that is collectively referred to as the Royal Dutch/Shell Group of Companies, one of the largest petrochemical operations in the world.

Shell worked with Pavilion and CRI as part of the development team and served as a beta test site for CATSCAN. CATSCAN combines CRI's catalyst expertise with Pavilion's predictive modeling and decision support technology to enhance catalyst life, improve operational performance and reduce production cost for styrene manufacturers.

“One major advantage of CATSCAN is that not only does it provide real-time operating data, but it also provides data in the normalized form,” said Kimberly Berg, process engineer at Shell. “This allows us to look at our process and operating data and compare it to the actual catalyst performance data on a long-term and day-to-day basis.”

While Shell has its own internal catalyst monitoring process in place, the company has added CATSCAN to assist in detecting potential problems faster, simulate optimal production parameters and forecast catalyst life.

“CATSCAN leverages Pavilion's technology to enhance the timeliness, accuracy and impact of critical decisions on corporate profitability,” said Doug Johnson, COO of Pavilion.

“As a sister company, we are honored to work with the Shell Chemicals team to provide key people, knowledge and technology to reduce operating costs and strengthen Shell Chemical's position as an industry leader,” said Jim Wambaugh, director of CRI's styrene business unit. “If we deliver a superior value proposition to our customers, then they can deliver more value to their customers – and we have done our job.”

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## PAGE TWO: Shell Chemicals Installs CATSCAN to Improve Catalyst Performance

### **About Shell Chemicals Canada Ltd. ([www.shell.com/chemicals](http://www.shell.com/chemicals))**

Shell Chemicals Canada Ltd is part of the Royal Dutch/Shell Group engaged in the chemicals business. Shell chemical companies manufacture and deliver petrochemical building blocks and polyolefins to industrial customers. These products are widely used in plastics, coatings and detergents. For further information please visit our website on [www.shell.com/chemicals](http://www.shell.com/chemicals).

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

Pavilion Technologies Inc. is the world's leading developer of advanced process control (APC) and environmental compliance solutions for global enterprises. Pavilion combines its cutting-edge technology and industrial domain expertise to return millions of dollars in value daily for more than 350 companies worldwide, including BP, Fonterra, Nestlé, TXU and Weyerhaeuser. Pavilion Technologies Inc. is a privately held company based in Austin, TX with offices serving every region of the world.

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