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## Fieldbus Foundation announces the DFI302 HSE approval

Smar is one of the only two manufacturers in the world that has a Linking Device registered

In May 2001, the Fieldbus Foundation announced the registration of the first Linking Devices in the world. The Smar DFI302 HSE was one of them. Smar has participated in the delivery of the prototypes and in the HSE Network Management specification edition since the beginning of the work related to the High Speed Ethernet communication protocol definition.

Smar Linking Device passed through different tests to verify the implementation and correction of the protocol in the device under registration process. The tests concerned about startup procedures, HSE and H1 System Management services, client/server opening sessions, FDA FMS related services, diagnosis and correction redundancy messages and the integrity and correction of the Capability File of the Linking Device.

The HSE protocol is simple and it was designed to assist high performance applications allowing the integration of control systems at the corporate level through pattern information technologies (Information Technology - IT). Besides, it can be said that the HSE integrates the Ethernet, the Internet and the Fieldbus technologies.

Characteristics such as plug-n-play equipments, redundancy with double tolerance (bus and equipment), scalability, Bridging (H1-H1, H1-HSE, H1-HSE-H1 and HSE-HSE) and support to device interoperability with another Fieldbus technologies, are



Libânio (Smar) with Dave Glanzer (FF)

inherent to the HSE protocol.

The HSE devices, among the Linking Devices, will have easier installation, configuration, maintenance and management, independent of being local or remote procedures. These aspects will facilitate the end users' lives that invested in devices based on this new technology.

According to Mr. Libânio Carlos de Souza, Smar Research and Development Director, "these new devices will attend to the market demand for a high-speed industrial net suitable for the discreet automation with high benefits. Furthermore it reaffirms the Smar leadership in Fieldbus Foundation technology".



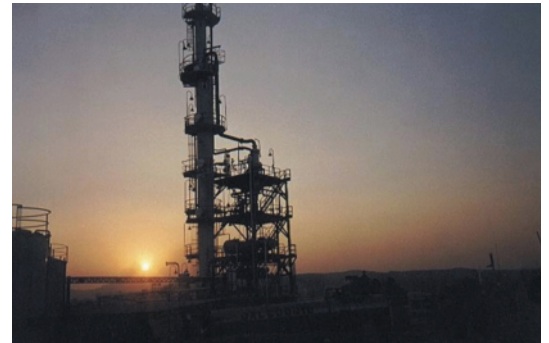
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## SYSTEM302 will be installed in a plant for tyre recycling

The Petrochemical Univen, a company in Brazil that produces special solvent, is installing in its plant of rubber recycling the SYSTEM302 with Foundation Fieldbus technology.

The plant uses an innovative process obtained by its researchers that produces a biochemist alteration (devulcanization) of the shredded rubber. Devulcanization is the breakdown of the bonds that provide rubber with its structural integrity.

The major advantage to devulcanization is the ability to take old tyres and break them down into a feedstock that could be used to make new tyres and other rubber products. This tyres recycling plant provides an adequate destination to the tyres that were making public areas dirty and inadequately occupying spaces destined to other types of garbage. It will help the tyres manufacturers to meet the new Brazilian environmental laws. Next year the companies must recycle one tyre for a group of four tyres produced. These quantities will increase progressively.



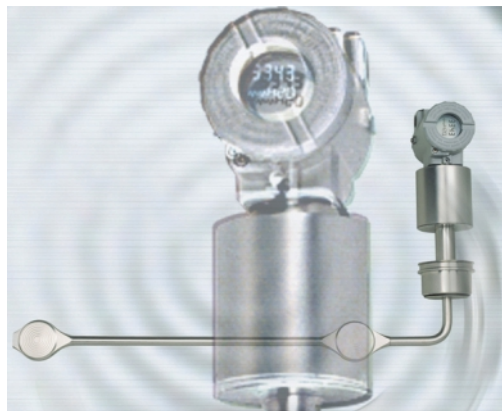
Univen Factory

and by 2005 three tyres in a group of four tyres will be recycled.

"We choose SYSTEM302 to carry through the automation of this important plant for the environment, because its devices are of latest generation and they provide a safer operation and a tight control to achieve an end product with better quality", affirms Maurício Mascolo, Process Engineer of the Univen. The system also will be implanted in the new units of Univen to be constructed during its expansion phase.

## DT301-Touché installed at Samarco

Samarco Mineração, a Brazilian company well known in iron ore sector for its constant investments in state-of-the-art technology has installed five Smar DT301 - Density Transmitter (Touché) in its industrial facilities. Ownership interest in Samarco is jointly held by S.A. Minera-



DT301

ção da Trindade (Samitri) - one of the major mining companies in Brazil, and by BHP Brasil, a division of Australian group The Broken Hill Proprietary Company Limited, one of the world's top mining companies.

Touché Technology enabled the installation of density measurement and control in iron ore processing where other transmitter could not be installed. This process measures the density in the floating chamber during the ore cleaning.

As a result, Samarco reduced the amount of iron ore and silica wasted in its production, besides a faster measurement with lower costs, since Touché does not need special licenses as radioactive transmitter does. The company produces iron ore pellets for blast furnace and direct reduction processes, in addition to iron ore concentrates. Its annual production capacity is 12 million tonnes of iron ore pellets and 1 million tonnes of concentrates.

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## Smart training in Singapore

Representatives got an update on new and improved products and software at the 6-th Asia Pacific Smar Representative Meeting held in Singapore June 5 and 6. This meeting is part of Smar's continuous program to keep those that integrate systems and support products up to date.

Training ensures that representatives can provide a good local after sales support and engineering. The training was conducted by staff from Smar's Singapore office and from the head-quarters. Smar received feedback that has come from the end-users.

At the same time Smar participated in the Fieldbus Foundation booth at the ICAM 2001 exhibition in Singapore June 5-8. The booth contained three live pilot plants and a "wall-of-fame" filled with a plethora of communicating devices of a variety of types. The Smar SYSTEM302 was interoperating with devices



from various manufacturers and Smar devices were communicating live with other hosts.

The showcase displayed the strong industry backing for the FOUNDATION™ technology in the Asia-Pacific. As FOUNDATION™ announced the registration of DFI302 at the press conference SYSTEM302 drew a big crowd wanting to see HSE.

## Smar International Corp. announced new Northeast's regional manager

Smar International Co. has announced the appointment of Mr. Gaetan Cloutier as the 'Regional Manager - Northeast' of Smar International Corp. Gaetan will be responsible for managing sales in Eastern Canada and in the New England state.

Mr. Cloutier has an Electronic Engineering Technology degree and began his career as an Instrumentation Engineer for Canadian Marconi, Canada. In 1982, he moved into a position with Philips Electronics Canada as a Technical Service Representative. After 10

years, he was introduced to the Process & Control/Automation World through West Isle Industries. As a Technical Sales Representative, he gained experience about Process & Control Applications in general power management, HMI/SCADA software, PLCs, infrared technology, I/O controllers and transmitters. In 1997, he joined Iconics as an International Sales Manager developing business both directly and through Agents/Distributors for Canada, Mexico, Central America, South America and New England.



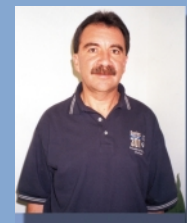
Mr. Gaetan Cloutier

## Smar Mexico with new general manager

Mr. Jorge Castillo was announced as the General Manager of Smar Mexico. Mr. Castillo has extensive experience in process control and instrumentation sales. He joins Smar team with a background in Inside and Sales Engineering, Regional Management, Marketing

and Representative Sales.

Mr. Castillo's educational background includes a Chemical Engineering degree from Universidad Nacional Autonoma de Mexico (UNAM); Business Administration from Portland State University; and Marketing - UNAM.



Mr. Jorge Castillo

## DT301- Pioneering Technology For the Measurement of Consistency and Density

For the past one year this transmitter from Smar has surpassed all expectations as confirmed by over 150 installations.

Several industrial processes require continuous density and consistency measurement for improved product quality. The instruments available so far tend to be expensive and difficult to install. Smar developed DT301- Touché to counter these and many other difficulties.

Touché utilizes a new technology based on capacitive cell which provides quick and reliable measurement of liquid Density and Consistency.

The installation of Touché is very simple as its probe is put directly in to the process or alternately inside a sampling chamber.

Touché is available in two versions. One is for general use and the other is for sanitary applications like food, beverages or pharmaceutical.

Touché utilizes two pressure and one temperature sensor through which density measurement is done with accuracy better than many presently available in the market. If required temperture value can also be read.

Touché can be used to measure density in many useful units like Degree Brix, Baume, Plato, INPM etc.

Through the digital communication touche permits the operator access to the operational status of the instrument including self diagnosis in the control room

far from the instrument.

Although the touche is available in the market just over a year but it already has more than 150 installation world wide.

Touché has been installed in all sorts of industries like Pulp and Paper, Sugar and Alcohol, Petroleum, Food and Beverages etc.

Introduction of Touché once again confirms Smar's commitment to technology.



DT301 installed in a process.

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