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## PROFIBUS TRADE ORGANIZATION RAMPS UP FIELDBUS ROAD SHOWS IN 2005

**Six 'PROFIBUS for Process Industry' events planned for USA**



*PTO Executive Director Mike Bryant, speaking at ISA EXPO in October*

The PROFIBUS Trade Organization (PTO) in USA is to extend its promotional program in 2005 to reach more than 3000 engineers during the year with specialist fieldbus training and education for PROFIBUS and PROFINET.

Speaking at the ISA EXPO in Houston in early October, PTO Executive Director Mike Bryant (pictured above) said that the PTO's PROFIBUS marketing efforts in 2005 will be concentrated on Road Shows and Seminars. The number of 'PROFIBUS for Process Industry' events will be boosted to six, while

for PROFIBUS in factory automation the target is eight. "In 2005 we want to reach 1000 engineers with our PROFIBUS marketing message," he said. "For PROFINET our target is 2000 delegates, making a total of 3000 people in 2005 who will hear our important automation messages!"

A unique aspect of the PROFINET seminars has been the 2 1/2 hour introductory session on Ethernet itself. Said Bryant: "We thought it would bore delegates. It's turned out to be the best thing we've ever done, because people need to



*'PROFIBUS for the Process Industry' Road Shows in 2004 attracted more than 60 delegates each at three venues, INCLUDING Houston, the heartland of our fieldbus competition! See story on Page 4*

know Ethernet fundamentals before approaching any Industrial Ethernet solution. We now think it's our duty to educate delegates, and they welcome that."

### USA Road Shows in 2005 include:

**PROFIBUS for Process Automation:** New Orleans, March; Charlotte, April; St. Louis, May; Boston, July; Anchorage, September; Los Angeles, November.

**PROFIBUS for Factory Automation:** Greenville, SC, February; Memphis, March; Portland, OR, April; Cincinnati, May; Cleveland, June; Rochester, July; Milwaukee, August; November, Salt Lake City.

**PROFINET:** Dallas, February; Birmingham, March; Seattle, April; Virginia Beach, May; Montreal, June; New York, July; Chicago, August; Denver, November.

*More information from: [lynne.froehlich@profibus.com](mailto:lynne.froehlich@profibus.com)*

## BREAKFAST WITH PROFIBUS



In October, more than 100 guests attended a special PROFIBUS

Breakfast in the industrial park at Höchst/Frankfurt, Germany. Dr. Thomas Tauchnitz (left) of Sanofi Aventis and Head of Work Area 2 of NAMUR explained his experiences of fieldbus technology and the benefits. PROFIBUS International Chairman Edgar Küster explained that a key advantage of PROFIBUS in the

process industries is its ability to serve both mainstream processes and their associated discrete applications. Other process fieldbuses, he said, need to use a second fieldbus. Mr Franz Stupp described the experiences of Merck in Gernsheim, where PROFIBUS works in tandem with AS-Interface. The Breakfast was a joint project with the PROFIBUS Competence Center at Infraserp Höchst Technik.



## SEE PROFIBUS AT SPS/IPC/DRIVES

PROFIBUS Nutzerorganisation (PNO) is presenting PROFIBUS and PROFINET at the SPS/IPC/DRIVES fair, November 23-25th, Nuremberg. The two booths (Hall 6, 210 and 214) will measure more than 200 sq. m. Multivendor demonstrations of Safety (PROFIsafe), Motion Control (PROFIdrive) and Industrial Ethernet (PROFINET) will feature. The INTERBUS Club will support the PROFINET multivendor product wall, where PROFINET devices and services will be shown.



*(For your convenience we have linked the above headlines to their respective pages. Just click the 'hot spot')*

## ► CERTIFICATION

# PROFIBUS TEST LABS: WORLDWIDE TEST SUPPORT AT YOUR SERVICE

## Certification underpins Quality

Quality assurance is one of the most important topics for open standard technologies. To ensure conformance with the standard, and thus full interoperability, PROFIBUS International (PI) has established a Qualified Device Certification System.

More than 500 experts from PI member companies are contributing to the maintenance

and further development of PROFIBUS and PROFINET. Teams are organized into five Technical Committees (TC) with 50 Working Groups (WG). TC1, with its eight WGs, is dedicated to 'Test and Certification' topics.

Experts have worked out a qualified certification and quality assurance system for both technologies, based on EN

45000. The main target is to guarantee safe and error-free communication of devices and systems from different manufacturers.

The following seven authorized PROFIBUS and PROFINET Test Laboratories are located around the world in support of this strategy. They are accredited according to the strict rules of TC1.

When a device passes certification tests in one of these test labs a PROFIBUS or PROFINET certificate is issued.

Devices are tested for conformance with the relevant Specifications and Guidelines as well as interoperability with devices from other manufacturers. A positive test report then allows PNO (on behalf of PI) to issue a certificate.

### CPPTL, CHINA

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CPPTL (Chinese PROFIBUS Product Test Laboratory) was founded in August 2001 in Beijing. It has conducted tests on products from nine enterprises in three years and also provides technical solutions and services for developing PROFIBUS products for 37 Chinese enterprises.

### JPTL, JAPAN

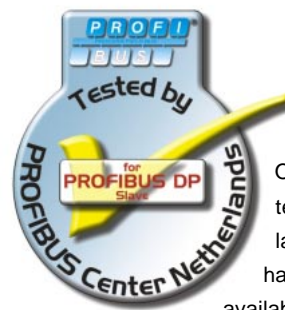
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Masahiko.imoto@skk.siemens.co.jp



JPO-TTL (Japanese PROFIBUS Organization - Tokyo Test Laboratory) provides full testing services for PROFIBUS products. It moved to a new location in June 2004. This new location is easily accessible for members and customers.

### PCN, NETHERLANDS

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Our test lab has the availability of experienced engineers and testers for the best possible support. We offer tools and analyzers to pretest devices before the actual certification test. Benefit from the full-service formula of our lab.

### PIC, USA

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john.swindall@siemens.com



The PROFIBUS Interface Center Test Lab in Johnson City, TN, USA supports DP, DP-V1 and DP-V2 testing. Rather than being just a test lab, we consider ourselves the partners of our customers in crafting quality PROFIBUS products for the North American and world PROFIBUS markets.

### COMDEC, GERMANY

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ComDec has been a PROFIBUS test laboratory since 1994 and more than 700 PROFIBUS certification tests have enabled extensive experience to be built up. Since 2003 PROFIBUS testing has also been offered and from October 2004 the range of tests will be extended to PROFINET devices. First PROFINET IO tests are being carried out now.

### IFAK, GERMANY

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Market success of PROFIBUS devices essentially depends on interoperability. Certification tests at ifak prove the PROFIBUS quality of devices from vendors all over the world. The PROFIBUS testlab at ifak was founded in 1998 and since then a considerable number of PROFIBUS DP and PA slaves have been certified.

### ITM, GERMANY

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The PROFIBUS Certification Laboratory itm provides conformance tests for PROFIBUS Masters and Slaves. In addition we develop test equipment for PROFIBUS systems and equipment, such as our 'PB Tester' and the PROFIBUS Monitoring Tool called 'Diagnosis Monitor'.

## CERTIFICATION

Find more news about certification in our next issue, due December 1st.

## HAVE YOU A PROFIBUS SUCCESS TO REPORT?

Then why not tell the world about it? Publication in this newsletter is completely free to members. Send contributions to the editor.



## » CERTIFICATION

### PROFINET CERTIFICATION UPDATE

The first Test Laboratories for PROFINET IO will soon be authorized by PROFIBUS International.

The job of a test laboratory is to execute the test cases defined by the Certification Guidelines. Then, a test report is issued to the device manufacturer confirming that the product meets the appropriate quality standards. All test labs are assigned to Technical Committee 1. This ensures a continuous exchange of useful information, maintaining and expanding consistent certification worldwide. When preparing for PROFINET certification you should ensure that the test lab you have selected actually provides the testing services you wish to undertake. Certification is mandatory for PROFINET devices to ensure 'plug and play' interoperability.



### PROFIDRIVE TESTS DEFINED

Certification Guidelines for interoperability tests have now been defined for drives with PROFIdrive functionality. This ensures that certified drives can be correctly operated with controllers that are equipped with a PROFIdrive interface. Manufacturers can prepare their products for the certification test using the PROFIdrive profile test tool. With this tool the behavior of the drive can be checked across different test scenarios in readiness for the test. This leads to shorter and successful certification cycles. Certified products are highlighted in the online product guide on [www.profibus.com](http://www.profibus.com)

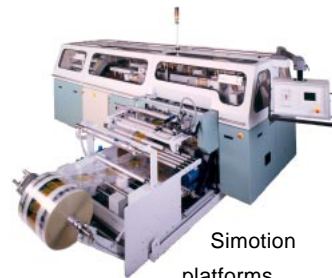
## » APPLICATIONS

### UK/ WATER TREATMENT

Rotork intelligent electric valve actuators with PROFIBUS DP open control system connectivity are helping Wessex Water improve their sewage treatment regime and protect popular tourist beaches on the Somerset coast at HighBridge.

A new storm overflow tank is the first to use PROFIBUS DP. Says commissioning engineer Iain Harris: "This should provide us with the prototype for similar installations in the future. We are always keen to look into latest developments." Two new storm tanks have doubled the storage capacity of the existing installation, which receives the flow from eight pumping stations nearby. A total of four independent PROFIBUS networks are now installed, each linking flow meters, high and low sensors and valve operating equipment from various manufacturers. **Rotork:** [mail@rotork.com](mailto:mail@rotork.com) or [www.rotork.com](http://www.rotork.com)

### USA/ WRAPPERS



communicating via PROFIBUS and PROFIdrive interfaces are being used on two Wrapping machines produced by Pemco. The Model 32 Ream Wrapper has eight axes and can process 80 reams per minute. A second machine, Model 39S, wraps at up to 140 reams per minute and has 15 axes. Both are built for maximum process flexibility and can run registered or non-

registered, with numerous gluing options. Touch panels control the machines' functions and provide diagnostics. The PROFIBUS system replaces earlier mechanical cams and offers major improvements in operation. **Siemens:** [frank.schemel@siemens.com](mailto:frank.schemel@siemens.com) or +49 9131 98 4567

### GERMANY/ WAREHOUSING

Thanks to PROFIBUS communications, stacker cranes in the warehouse of an international engineering company in Germany are now operating up to 31% faster following a modernization program undertaken by BEA Elektrotechnik und Automation GmbH.

Three cranes in the service and assembly facility were equipped with an ICS5000L positioning system from Trimble connected to an S7 300 controller by PROFIBUS running at 1.5Mbps. Being up 31% faster has led to

substantial performance increases. The cranes are also running much smoother, reducing wear and tear.

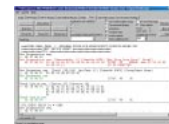
The performance increase was achieved solely by optimizing the acceleration and braking distances, and the cranes could have been made an additional 10 percent faster.

BEA Elektrotechnik und Automation GmbH opted for a progressive modernization involving zero downtime. First, DC motors were replaced with AC motors, increasing system availability. Then the controls were upgraded. Finally, BEA installed two positioning systems on each crane, one for the travelling axis, the second for the lifting/hoisting axis. The positioning system uses an infrared beam to measure the travelled distance. The investment is expected to amortize itself in approximately one year. **Trimble GmbH:** +49 6142 2100166 or [karl-heinz\\_foerderer@trimble.com](mailto:karl-heinz_foerderer@trimble.com)

## » PRODUCTS

### TOOL FOR DP-V1

PROFISCRIPPT is a professional tool that automatically tests and verifies the complete protocol functionality of PROFIBUS DP AND PA devices. It has enormous flexibility and is easy to use. At this time it is the only tool available which can power down/up devices and manipulate I/Os by an external power switch. The implemented syntax interpreter can also test GSD files. This tool will save time and money during development and certification and "the results you get will certainly reflect in the test labs," say its makers. A free trial version with limited functionality is available. **PROFIBUS Center Netherlands:** [www.profibuscenter.nl/profiscrript](http://www.profibuscenter.nl/profiscrript)



### PROFINET I/O MONITOR

Softing has released a set of PROFINET IO decoders and configurable filters for the well-known 'Ethereal' software tool, which is designed for the diagnosis of protocols that use Ethernet. Powerful analysis functions allow the optimization and diagnosis of PROFINET devices and systems. The user can set the available filters for different telegram types, or contents and data, both during recording and during evaluation. It runs on any Windows PC with an Ethernet connection and no additional hardware is required. Since Ethereal is portable, other hardware and operating-system platforms could be used. **Softing:** Tel. ++49-(0)89-45656-340 or [www.softing.com](http://www.softing.com)



## ▶ AROUND THE WORLD

### 'PROFIBUS FOR PROCESS INDUSTRY' FIELD BUS SEMINARS SCORE IN USA



The PROFIBUS Trade Organization (PTO) and the PROFIBUS Integration Center (PIC) recently conducted PROFIBUS roadshows in Philadelphia, Houston and Atlanta.

Over 200 participants attended the three one day 'PROFIBUS for Process Industry' seminars that were hosted in these three cities

from July through to September.

The seminars included detailed instructional presentations on how to engineer and install a PROFIBUS-based control system for process industry applications. End user presentations by engineers from Air Products and Chemicals Inc., Maverick Technologies and Control Corporation of America shared their successful experience of using PROFIBUS as well as the technical and business benefits they have realized.

All the presentations reflected the unique strength of PROFIBUS, which is to seamlessly integrate process instrumentation like

pressure, level, temperature, flow measuring transmitters and valve positioners with devices for discrete and motion control such as variable speed drives and motor control and protection devices – all with a common communication protocol. Using a single fieldbus technology for all applications in a process plant provides opportunities for significant cost savings in



engineering, training and maintenance.

Many participants indicated that they had been using PROFIBUS for some time and were planning to use it more extensively in future projects.

A live demonstration was on display that included instrumentation from Endress + Hauser, ASCO, TopWorx, Avery Weightronics and Siemens, hosted on a Siemens Simatic PCS 7 DCS. Participants had the opportunity to take a closer look at PROFIBUS working with the demo during the course of the day.

The feedback from participants was overwhelmingly positive at all the seminars. The PTO and PIC now plan to host six one day 'PROFIBUS for Process Industry' seminars in various cities across the USA, starting in March 2005.

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## UK



The venue for the 2005 PROFIBUS Conference will be Coombe Abbey in Warwickshire, in the heart of England. Coombe Abbey is a substantial conference center based in a medieval monastery and is close to Birmingham International Airport. It has its own 'rather individual style' of accommodation. It lies in Shakespeare country and is within easy reach of tourist attractions. The 2-day event will feature a comprehensive educational program covering PROFINET, PROFIsafe, PROFIdrive and the unique PROFIBUS 'hybrid' solution for the process industries. There will be a free-of-charge exhibition and technology demonstrations. The 1-day rate is £120 + VAT or a complete 2-day package including

medieval dinner and luxury accommodation costs £395 plus VAT. More from [www.profibus.co.uk](http://www.profibus.co.uk)

## SWITZERLAND

The annual Swiss PROFIBUS Day takes place this year in Basle on **November 10th**. The main topic is 'Business Logistics and Automation: PROFIBUS, the Enabler'. An



exhibition of about 20 vendors runs alongside. Click either of the graphics (left and below) to download a pdf invitation. The first 3 on-line registrations at [www.profibus.ch](http://www.profibus.ch) using code 20619 will **participate free of charge!**



**MORE EVENTS AROUND THE WORLD**  
Seminars, workshops, training, exhibitions and conferences ... and all other important dates and news from the world of automation are listed on the PROFIBUS website at [www.profibus.com](http://www.profibus.com)