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Official Newsletter of PROFIBUS International www.profibus.com

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(In Acrobat, for your convenience, we have linked the above headlines to their respective pages. Just click the 'hot spot')

PROFIBUS AND IDA AGREE ON CO-OPERATION

PROFInet – More than just Ethernet

HANNOVER FAIR REPORT

The PROFIBUS booth at Hannover Fair 2002 was again a focus for modern automation technologies. A PROFInet demonstration was packaging chocolates to show how multiple systems can be integrated over Ethernet. A live PROFIdrive V4 GSD demonstration showed how drives can now exchange data directly. Also demonstrated was the PROFIBUS PA profile, using Version 3 and FDT/DTM products.

A press conference held jointly by PROFIBUS International (PI) and the Interface for Distributed Automation (IDA), announced an agreement to find common approaches for Ethernet solutions, aiming to minimize differences and prevent further divergence, to reduce costs to vendors and users alike.

Initially, two Working Groups have been formed: 'Device Integration' and 'Plug and Work'. These will start work immediately. The former will use the IEC 'Device Profile Guidelines' to standardize scaling capabilities based on existing description tools (XML, DD, DTM, etc). The latter will develop specifications for automatic address allocation by DHCP as well as

industrial
communication
forum

PROFIBUS was also a major participant at the Hannover Fair's first ever industrial communications forum, organized by leading organizations for industrial communications.

manual configuration based on 'Discovery and Basic Configuration' tools. Diagnosis will be based on SNMP. Initial results will be presented in September 2002 and further 'synergies' will be pursued thereafter.

OPERATIONS MANAGER MARKETING

PNO, the PROFIBUS organisation in Germany, announces the appointment of Volker Oestreich as Operations Manager Marketing.



Volker has been a leading manager in the manufacturing industries for more than 15 years. He has also actively participated in national and international organisations such as ZVEI, DKE, IEC and PICMG.

His tasks now include the further development of www.profibus.com as a worldwide information pool and the presentation of attractive PROFIBUS booths at major Trade Fairs. He places major importance on the exchange of information between Regional PROFIBUS Associations, and support for members worldwide.

DID YOU MISS HANNOVER FAIR?

Don't worry. You can see the PROFIBUS booth in Virtual Reality, and zoom in on the exhibits, at:

www.tuneful-media.de/hm/profibus

» PI NEWS

PROFESSIONAL QA TO ASSURE PROFINET COMPONENTS



In order to guarantee a high quality standard for PROFInet, working groups have defined special quality management systems describing the specification and implementation process in a QA manual which becomes the basis for company-overlapping quality management of new software releases.

PROFINet Competence Centers are being established to support product developments. This will assure that the porting of publicly-available software is undertaken in the most effective way. Certification procedures have also been established, which all products must undertake before market introduction to ensure that only the highest-quality products reach the market.

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PRODUCT GUIDE ON-LINE



Certified PROFIBUS devices are specially highlighted in the online product guide on the [PROFIBUS Web Site](http://www.profibus.com). Full search facilities aid selection.

Currently, around 2,000 products are listed from several hundred manufacturers worldwide.

CHINESE STANDARD

PROFIBUS has become the first Chinese fieldbus standard. The official number of the Standard is JB/T10308.3-2001.

» GENERAL NEWS

BRAZIL

Festo Brazil tells us that now 30% of their customers are using PROFIBUS networks with pneumatic products such as valve terminals and IPCs. "The openness of the protocol means it's easy to integrate new stations and equipment," said Bruno Tassinari, Product Manager. thompson@casadanoticia.co.br

SAFETY

MESCO Engineering, a certified PROFIBUS Competence Center, is now offering customers compre-

hensive support for PROFIsafe applications. PROFIsafe allows for the implementation of automated safety solutions over standard PROFIBUS connections. +49 (0) 7621 8 90 31 0

APOLOGIES ...

to smar in Brazil for using the wrong picture in PROFInews 24 with their article about the Lime application. There was no picture, so we can't show you one here ... sorry! cesarcass@smar.com.br

PROFINET TEST SPEC

PI announces the availability of a Test Specification for PROFInet certification. The guideline will help machine and plant builders, integrators and manufacturers ensure that their products and systems are fully compliant with the PROFInet spec, a new object-based standard for multi-vendor, plant-wide integration of automation systems. The guideline can be ordered from your local PROFIBUS office, with a discounted price for members. The guidelines and PROFInet software are available free to members for download from www.profibus.com

FLUID POWER PROFILE

A Profile for Fluid Power devices has been published. The 116 page document describes interchangeable proportional valves, hydrostatic pumps and hydrostatic drives for use with PROFIBUS, defining the variables and parameters to be used in designing transmitters, actuators, controllers and HMIs. The profile is available for free from the members' download page at www.profibus.com

EDDL SPEC ANNOUNCED

A new guideline covering Electronic Device Description Language for PROFIBUS has been published and is available for free from the members' download page at www.profibus.com

PI DONATES FDT TO ZVEI

To facilitate widespread use of the FDT specification, PI has transferred rights to the latest technology developed by PI to ZVEI, for general use. Other fieldbus organisations thus have the opportunity to agree appropriate rights of use with ZVEI. PI is continuing development work and will make that available to ZVEI too. The aim is to enable vendor and fieldbus independent integration of field devices.

DOWNLOAD THESE FROM THE WEB

Information available 24 hours a day for download from www.profibus.com includes:

- » PROFIBUS Specification
- » Profiles
- » Guidelines
- » Technical descriptions
- » Software
- » PROFIBUS and PROFInet Slide Sets
- » Order forms

Some are free to all. However, some are only free to members. Get your password from your local Regional PROFIBUS Association (see Page 8).

CERTIFICATION

PI maintains a qualified certification system for PROFIBUS devices. Tests are carried out by authorised laboratories and only when a device achieves a positive report does it receive official certification. Currently there are several hundred certified products. [See product guide](http://www.profibus.com) at www.profibus.com

» PRODUCT GALLERY 1

FISCO NODES FOR PA



Up to 31 instruments can be connected to a single PROFIBUS PA segment using Fieldbarrier, which allows non-IS Segment couplers to power instruments in hazardous locations. Fieldbarrier has 4 FISCO IS outputs, and 4 PROFIBUS PA instruments can be connected to each over a bus length of 120 metres. **Pepperl+Fuchs: twesters@de.pepperl-fuchs.com or www.pepperl-fuchs.com**

REAL TIME SYSTEM



For test stands and production line automation, ADwin offers fast, real-time operations with a precision of microseconds. **Jaeger Computergesteuerte Messtechnik: hbeimert@adwin.de or www.adwin.de**

STARTERS

OEMs and end users whose machines and systems require high availability can save costs with the new ET 200S motor starters, designated High Feature. The many supported features include differentiation between short circuit and overload tripping, remote reset, EMERGENCY-START function; remote parameterization via STEP7 or other tools, and current value transmission over the network. **Siemens A&D: +49 (0) 911 895 4839**



CONTROL VALVES

New PROFIBUS interfaces for Keystone quarter-turn electric actuators provides 4 inputs, 2 outputs and 1 analogue position feedback, giving the same level of intelligence and diagnostics as is available with Tyco's pneumatic actuators. The NEW interface for the Biffi range of electric actuators provides a true intelligent electric actuator for the PROFIBUS network, offering a much wider range of diagnostic algorithms, reducing down time and ensuring maintenance is undertaken in the correct time spans. **Tyco Valves & Controls: dgsmith@tyco-valves.com**

BOARD EXTENSIONS

The AnyBus family of embedded communication modules now includes a module for DP-V1 support. It is hardware and software backwards-compatible with existing PROFIBUS DP versions. One Master Class 1 and up to 4 Master Class 2 connections can be operated. The module processes messages up to 244 byte and operates at up to 12 Mbit/s. It is based on PROFIBUS technology. **HMS Industrial Networks: +49 (0)721 964720 or miv@hms-networks.com**



ARMoured CABLE

LAPP Cable South Africa has adapted its range of PROFIBUS cables to suit industrial markets where greater mechanical protection is required. The range includes SWA (steel wire armoured) cables for PROFIBUS DP AND PA, with PVC flame retardant and specialised UV resistant outer sheath versions. There's a full range of compression glands too. **LAPP Cable: +11 (0) 885 2572/3/4/5 or www.lappcable.co.za**

DP-V2 STACK

Softing has become one of the first suppliers of the PROFIBUS DP-V2 protocol stacks offering features such as DXB (Data eXchange Broadcast, or slave to slave communications), deterministic process data exchange and clock synchronization. The new software is optimized for factory automation applications needing very fast cycle times (< 1ms) and for continuous processes in process automation needing online re-configuration and the highest safety requirements (monitoring, redundancy, etc). The basis for the software is the ASPC2 ASIC. **Softing: +49 (0) 89 45656 0 or www.softing.com**

HYDRAULIC CONTROL

The new AH2000 range of hydraulic drive controllers has PROFIBUS connectivity and a position sensor, proportional valve, hydraulic cylinder, pressure sensor, and digital I/Os operating in conjunction with TwinCAT automation software, to form a complete axis drive system. The devices control velocity and position of the cylinders, and are equally suitable for metal-cutting machine tools or positioning tasks. Their function is similar to that of servoamplifiers. There's a PROFIBUS interface of course. **Beckhoff: +49 (0) 5246 963 164 or www.beckhoff.com**

LITTLE BIG IC



UNIGATE-IC is a low-cost miniature PROFIBUS 'gateway' that is small enough to be integrated into components such as intelligent sensors. It includes all digital and analogue PROFIBUS functions and enables users to implement PROFIBUS connectivity with minimum effort and fieldbus knowledge. The module has a hybrid structure and uses a standard PROFIBUS chip for full compatibility with the spec. A Protocol Developer tool aids program development. **Deutschmann Automation: +49 (0)64 34-94 33-0 or info@deutschmann.de**

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» PRODUCT GALLERY 2

HAZARDOUS I/O



The WAGO I/O SYSTEM 750 can now be used for direct connection of I/O modules in zones 1 and 0. This is the result of an alliance between WAGO and BARTEC.

Intrinsically safe modules should be available now for digital inputs for NAMUR sensors, digital outputs for all popular EEx "i" valves, as well as analogue inputs and outputs ranging from 0 mA to 20 mA. **WAGO: +49 (0) 571 887 448 or martin.witzsch@wago.com**

DRIVE CONTROLLER



DriveControl 684 extends Kuhnke's range of positioning controllers up to 1.2kW. It has a PROFIBUS interface and can emulate functions such as asynchronous operation and 'flying saw'.

It has, claims the makers, many new options for networking drive solutions. **Kuhnke: +49 (0) 45 23 4 02-0 or sales@kuhnke.de**

SERIAL MASTER



The new Serial PROFIBUS Master is a commissioning and service tool for PROFIBUS DP and PROFIBUS PA slaves. It can scan a network for connected slaves, exchange I/O data with a slave in cyclic mode and display the diagnostics.

PROFIBUS DP slaves can also be operated in the DP-V1 acyclic mode, which is helpful for commissioning complex field devices like drives, modular I/O and PROFIBUS PA slaves. It can work as a Class 2 Master. **Bihl + Wiedemann: +49 (0) 621 3399 60 or mail@bihl-wiedemann.de**

COMMAND/CONTROL



applicomIO is an industrial communications solution for PROFIBUS systems used in command and control applications. It comprises an interface card and a set of software tools for deterministic communication with I/O devices.

Functions include automatic detection and configuration of devices, direct I/O access and online diagnostics. It is based on PCI and PC104 standards. **applicom International: +33 (0) 2 32 96 26 30 or marketing@applicom-int.com**

WEB TOOL

SpiderControl, a development of the IniNet product, is an innovative software-tool offering a scalable concept for the integration of Web-enabled graphical interfaces into fieldbus

systems, based on a JAVA-SCADA environment. **MESCO Engineering GmbH: +49 (0) 7621 8 90 31- 0 or www.mesco.de**

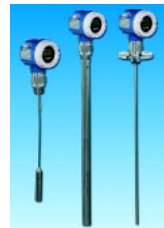
FIRST AID KIT



PROFIBUS Center Nederland together with Endress + Hauser have developed a First-aid kit for maintenance specialists. It is intended for the analysis and resolution of common PROFIBUS malfunctions. Maintenance specialists introduced to the kit

have been 'overwhelmed' by the completeness of the kit, apparently. **PROFIBUS Center Netherlands: mmink@profibuscenter.nl**

ON THE RADAR



Levelflex M is a new guided level radar for both bulk solids and liquids. For liquid applications it can be equipped with a rod probe for level measurement in bypasses and stilling wells and a coaxial probe for storage and buffer tanks. Maximum measuring range is up to 35m. The Micropilot M

level radar is available in two new versions: FMR 244 for simple applications and the flush-mounted FMR 245 particularly geared to applications in foods and pharmaceuticals. For the first time, signal progression is shown as an envelop curve on the instrument display thus providing information on the reliability of the instrument during application. A graphic operating tool (ToF-Tool) permits simple commissioning, optimizing, diagnosis and measuring point documentation. **sandra.oeschger@pcm.endress.com**

SMART EYES



The IQ-Sense module for the Simatic ET 200S distributed I/O system from Siemens, lets you coordinate photoelectric sensor parameters, such as sensitivity, output selection, timer function, and hysteresis, over PROFIBUS DP.

The module snaps into an ET 200S station and coordinates parameters from a sensor's 2-wire cable. Setting-up can still be performed manually at a sensor's teach-in button. IQ-Sense features full PROFIBUS DP diagnostics. **Siemens A&D: +49 (0) 911 895 4839**

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Your prime source of automation information

» FOCUS ON ... UK TRAINING COURSES



In response to requests from the PROFIBUS

UK group and other PROFIBUS users, the UK PCC at Manchester Metropolitan University has developed a one-day Certified PROFIBUS Installer Course. Aimed at people who have little experience of fieldbus installation, the course teaches the layout, installation and testing of complete PROFIBUS networks. The course highlights many problems and pitfalls that are so easy to avoid at the early stages of layout design and installation.

The course starts with the basics of PROFIBUS DP, FMS and PA, including RS485, IEC61158-2 and fibre optics and then goes on to cover in detail:

- » PROFIBUS DP, FMS and PA network technology, station types and addressing, network configuration and start-up.

- » Causes, effects and avoidance of transmission-line reflections and the importance of correct line-termination.

- » Network and segment size



limitations and the effect of transmission rate.

- » Common wiring and layout pitfalls, modern wiring and connector systems.

- » Use of repeaters, couplers, link modules and fibre-optic segments.

- » Wiring and installation testing and the use of bus test tools.

- » Interference pick-up (EMC), cable routing and earthing considerations.

- » Earth potential problems and their avoidance.



A practical approach is used to show how to apply the basic rules to design real factory and plant layouts. Topics such as connection technologies, cable and network testing are covered using a hands-on approach with up-to-date equipment.

The course is designed to make sure that installation personnel are fully aware of the requirements for successful installations, and are competent in using wiring and test tools, by including both practical and written (multiple-choice) tests.

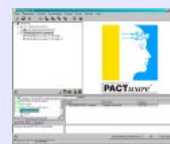
No previous knowledge of fieldbus systems is required. However, even experienced fieldbus engineers say that they have gained valuable knowledge on how to avoid problems. Already Certified PROFIBUS Installers are in demand for installation work. **+44 (0)1489 589574 or profibus@btinternet.com**

» FOCUS ON ... FDT/DTM TECHNOLOGY

DTM is a universal software solution for communicating with field devices using any communications and control platform. Recently PROFIBUS donated its work on DTM to the ZVEI in Germany to ensure the technology remains completely open and widely supported. Here are a couple of the first products based on this world-beating and pioneering technology

The *_is FDT Toolkit from ifak system is now ready for delivery. The toolkit enables equipment manufacturers to develop Device Type Manager (DTM) files for their fieldbus devices in accord-*

ance with the FDT specification. A DTM provides easy device access and management, independently of the control system and fieldbus used. A test console is provided to test DTM functionality. ifak system: +49 (0) 3 91 54 45 63 60 or ahe@ifak-system.com



Trebing & Himstedt has developed PROFIBUS Comm DTM for use with the Siemens CP5511 (PCMCIA) PC card. Configuring FDT/PACTware and hardware for process connection (CP5511) for PROFIBUS DP-V1 devices is made easy,



fast and efficient. Further developments for other hardware platforms are in the pipeline. FDT/PACTware is manufacturer and fieldbus independent configuration software for field devices, al-



lowing operation of all field devices via any given communication structures on the basis of FDT and DTM technology. With PROFIBUS Comm DTM, operators, integrators, service staff and manufacturers are able to use a globally-available hardware platform for commissioning and service. This has already proved its worth with the PROFIBUS Scope 3 software. Trebing & Himstedt: +49 (0) 385-3 95 72-0 or info@t-h.de

Have your PCC featured in PROFInews: send articles and information to the editor - see address on Page 8.

» APPLICATIONS

UK/ CHEMICALS PLANT INSTALLS PROFIBUS PA



Yorkshire-based Lambson Fine Chemicals commissioned Lundy Projects Ltd to design and construct a turn-key plant capable of producing liquid fertiliser.

Fieldbus technology was chosen for its fast-track build and inherent flexibility. A distributed control system was selected for the sequencing and control of the plant, coupled with Endress+Hauser's Commuwin II configuration

software package, which proved to be invaluable during the setting up and commissioning phases. A multidrop PROFIBUS PA bus for process measuring instrumentation and AS-i for digital input and output signals, involving on/off valves and the motor control centre (MCC) were also chosen, reducing cable costs.

PROFIBUS PA equipment from Endress+Hauser in-

cluded pressure, level, flow, temperature, analytical and networking components. PROFIBUS PA positioners were used on all control valves, whilst actuated valves with limit switches and solenoids, together with signals to and from the MCC were via the AS-i bus system.

The objective was to provide a complete plant that could be monitored and controlled

via a fieldbus. Lundy Projects achieved this by using fieldbus architecture designed to encompass all project requirements, including equipment installed in both safe and hazardous areas, hardwired trip systems and the integration of variable speed drives. Plant completion was within the 6-month timescale, from greenfield to hand-over. **+44 (0) 161 286 5000 or publicity@uk.endress.com**



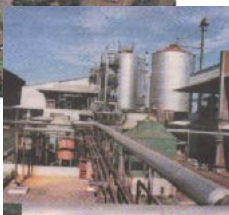
BRAZIL/ OIL REFINERY "GREATLY IMPROVES" MAINTENANCE



smar has supplied a PROFIBUS

PA process automation solution including more than 200 PROFIBUS PA field devices for a new comestible oil refinery in Brazil.

Cocamar, one of the most important comestible oil refineries of South America is located in Maringá city, within the biggest Brazilian cooperative industrial area. At the end of 2001 it inau-



gurated the new refinery, which will increase the previous capacity of 200 tons of oil per day to 420 tons, thanks to a investment of approximately US\$3.5 millions. A new vegetable oil plant, a multi combustible boiler system, an energy debasing system and a big cereal dryer system have all been installed.

Cocamar now has the largest PROFIBUS PA installation in Brazil, incorporating more than 200 field devices. The PROFIBUS system is installed in the soy and multi oil refinery where the flow, acid and soybean dosing

controls, as well as the water, steam, level and temperature control, are performed. smar provided pressure, level, flow transmitters and temperature transmitters as well as positioners. For control loops where 4-20mA signals are available, smar provided the unique IF303 (4-20mA Converter to PROFIBUS PA) and FI303 (PROFIBUS PA Converter to 4-20mA).

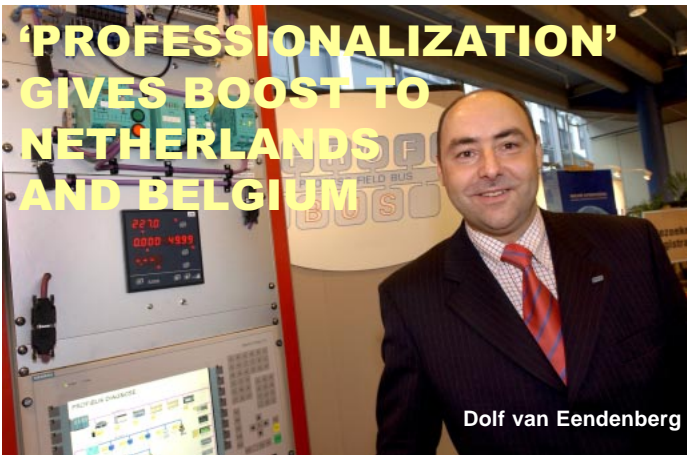
All field devices are integrated with other manufacturers' products, including Siemens, P+F, Krohne and Metroval, thereby verifying system interoperability. The system is mastered by a

Siemens PLC and there is also an AS-i network from P+F.

The PROFIBUS PA segment, where the smar devices are located, was configured using Simatic PDM tool from Siemens.

The new plant has been operational since September 2001. "System interoperability and startup were excellent and the plant is operating very fine," said Cocamar automation Engineer José Cândido. "The cost reductions and simplicity of PROFIBUS were confirmed and now we are seeing greatly improved maintenance behaviors as well". **cesarcass@smar.com.br**

» FOCUS ON ... REGIONAL PROFIBUS ASSOCIATIONS



Dolf van Eendenburg

In this new feature we give RPAs around the world the chance to highlight their plans and activities. Here, we look at how two RPAs are working together, for the benefit of all.

PROFIBUS in Benelux is growing day by day. Alongside the strong traditional areas for PROFIBUS in manufacturing, the growth in the process industry is even stronger. This growth is also visible in the dimension of the two Associations. In 2001 the number of members in the Netherlands grew

to 60! Now, to improve the support to existing and potential users, and to achieve even more growth, the boards of the Belgium and Dutch Associations have decided to give 'professionalism' an extra boost in 2002.

This has already started with the recruitment of a full time employee. On February 1st, Dolf van Eendenburg was appointed as director of the Belgium and Dutch PROFIBUS Associations.

Dolf aims to be proactively propagating PROFIBUS and

expanding the acceptance of PROFIBUS in the two regions. Among other things he will be responsible for the organisation of seminars and workshops, and industrial organisations like end-users and system integrators will be one of his main targets.

Another important activity will be the publication of a PROFIBUS annual magazine including items like the technology behind PROFIBUS and information about products, members, references, and similar.

Besides these activities Dolf will also participate in PROFIBUS International activities. The PI management has formulated several tasks to be executed and a concept is being developed to support the RPAs in helping them grow to a higher level.

Dolf will also work with several groups to improve the marketing of PROFIBUS PA and PROFInet.

The hectic schedule established already by Dolf is shown in the box below.

DOLF'S BUSY SCHEDULE:

- » April 24th: workshop for members. Location: Katholieke Universiteit Limburg in Diepenbeek, Belgium
- » April 25th: workshop for members. Location: Bürkert in Utrecht, Netherlands
- » May 14th: workshop for members about PROFIBUS PA in the Netherlands.
- » May 15th: workshop for members about PROFIBUS PA in Belgium
- » May: release of the annual Dutch PROFIBUS book "PROFIBUS Gids"
- » June: in Belgium and the Netherlands, Seminar on 'PROFIBUS in the process industry'
- » September 17-20: STI2 exhibition in Belgium
- » November 4-8: HET Instrument in the Netherlands.

» PI NEWS

WE MAKE IT VISIBLE TO OTHERS AS WELL!

www.profibus.com is aimed at an international audience in the automation and communication sector - in other words, your customers. The site attracts 3,000,000 visitors per year, and growing.

Why don't you profit from the opportunity to reach thousands of people interested in PROFIBUS? Advertise on www.profibus.com. **Contact:** info@profibus.com

SEMINARS, WORKSHOPS, TRAINING, FAIRS ...

...and many other important dates and news for the world of automation are listed on the PROFIBUS web site. Browse '[News and Events](#)'

PROFINET SLIDE SET

PROFINet is a concept developed for industrial automation, which satisfies the call for greater flexibility in production processes as well as easy maintenance using system-wide, vendor-independent engineering.

Apart from the integration of PROFIBUS and Ethernet, a way of easily incorporating all fieldbus solutions has been created, which is important for consistent communications from corporate management level to field level.

Describing the main features and underlining the most important arguments, the new PROFINet slide set explains the most important benefits.

Members can download this presentation free of charge in English, German and French from www.profibus.com

» AROUND THE WORLD

News from the Regional PROFIBUS Associations. If you have a story or report to contribute, please send it to the editor at the address given bottom right.

USA

The PTO has appointed a Technical Director. Mike Aldridge, formerly of Siemens, joined recently to look after technical matters. The administration side has been bolstered by the addition of Lynne Froehlich as Administrator and Marsha Bryant as Executive Assistant. PTO will exhibit next at the ISA EXPO in Chicago Oct 21st-24th. A series of seminars for SIs is planned, covering 9 cities.

JAPAN

JPO is helping establish a test laboratory facility in the Japanese Advanced Research Institute for Science and Engineering (RISE) at



Waseda University in Tokyo. The Industrial Open Network Laboratory is now established and after a one-year preparation period, RISE will begin operations. A press conference was held on March 26, 2002, at which Professor Hama and Professor Hashizume of RISE and Mr. Motoyoshi and Mr. Imoto of JPO were key participants. The aim is to support

the introduction of field networks in Japanese industry, and to have a third party test facility. Because Waseda University (established in 1882) is one of the top private universities in Japan, this is a big opportunity for JPO to promote PROFIBUS. With the support of RISE, JPO is planning a PROFIBUS test laboratory at the university.

UK

Smiling faces as the UK PCC at Manchester University has its certificate renewed for a further two years. Pictured are UK Chairman Bob Squirrell (right) presenting the certificate to MMU's Andy Verwer.



PROFIBUS UK has launched the PROFIBUS Made Easy series of training events for engineers and management involved in the design, development and implementation of systems and devices for automation and process control. Presented by experts, each workshop or seminar addresses a distinct aspect of the PROFIBUS range of solutions for industry. Subjects to be covered include Ethernet, Safety, Implementation, Process, Drives Engineering and Motion Control. (See also Page 5 for our **Focus on ... UK Training Courses**)

CHINA

A Chinese Test laboratory has been established in Beijing as an accredited PROFIBUS test centre for supporting vendors and manufacturers in Asian markets.

BRAZIL

A seminar entitled 'Technology Brazil' was held in the city of Curitiba, in the South of Brazil, in November 2001. About 120 executives and



specialists with interest in PROFIBUS heard presentations on PROFIBUS DP, PA and PROFInet.

SWITZERLAND

PROFIBUS Switzerland is celebrating its 10th birthday this year. Following the success of last year's event, Switzerland is organising a second PROFIBUS Day, which this year will be on 27th November.

See also Page 7 for our **Focus on ... Netherlands and Belgium**

Why not tell the world about your PROFIBUS successes and achievements in the pages of PROFInews? Publication is free to member companies, RPAs and PCCs around the world. Send contributions to the editor - see right.

» REGIONAL ASSOCIATIONS

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