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The official email newsletter of the PTO in North America

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GENERAL NEWS

DEBUNKING THE MYTH

**POLLY'S BEEN QUIET!** Polly is our myth-busting guard who stands ready to correct mis-information about PROFIBUS and PROFINET. A few minor 'SUE' issues have been overheard recently but generally the airwaves have been quiet. As a result, Polly has stayed on vacation, though she remains on alert! Maybe you've heard something worthy of attention? If you have, [email us](#) and we'll send our intrepid myth-busters to investigate. It can be anything - a presentation slide that puts down PROFIBUS, or an article on the web that attacks PROFINET. A small token of our appreciation will go to the person who points out an item.



**A BRIEF HISTORY OF (PROFIBUS) TIME:** Geoff Hodgkinson, the UK-based editor of *PROFINETS NORTH*

*AMERICA* and its international big brother *PROFINETS*, has been

involved with PROFIBUS, PROFINET and PI since the early 1990s,

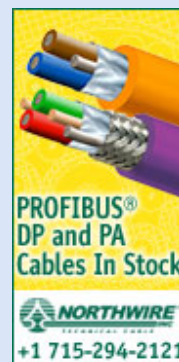
and has hence 'seen it all'. In a rare by-lined article Geoff gives his view of what made PROFIBUS successful.

Good technology and a great 'community' are keys, he says, but good leadership plays an important role too.

[Read Geoff's thoughts.](#)



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**PROFINET (AND PROFIBUS) TRAINING:** Carl Henning (right) PTO's PROFINET guru says: "One of the main functions here at PTO is the provision of education on all aspects of fieldbus and industrial networking, particularly PROFINET of course. Each year we visit up to 30 locations across North America delivering training classes, seminars and workshops for PROFINET and PROFIBUS. I particularly enjoy meeting the diverse range of people we attract, and we encourage lively interaction as I believe it contributes greatly to the learning experience. We also offer on-line learning via webinars and web-based training. The PROFI Interface Center (PIC) in Johnson City, TN, (they provide detailed technical support for product developers), are usually involved too, to provide deeper technical insights. There are possibilities for all - please check the options below."




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- **PROFItech classes:** The last PROFItch class of 2009 (for gaining PROFIBUS Certified Engineer status) has some seats left! We'd like to fill them. If you are a member, you get a discount! The last 2009 session is [November 16-20](#). Download the PROFItch brochure [here](#).
- **FREE One-day Training Classes:** The final PROFINET class in 2009 takes place in [Seattle](#) on November 17th. The syllabus includes Industrial Ethernet Basics, Network Architectures, Advanced Network Architectures and Industrial Wireless Networking. If you can't make it to this event, you'll find some nice archived webinars [on these topics here](#). BTW, our final PROFIBUS class is in [Silicon Valley](#) on November 19. *Watch the [web site](#) for our 2010 schedule - we'll be doing even more PROFINET classes.*
- **Win a PROFItch Certified Engineer course:** To provide even more incentive to attend our PROFINET classes, we raffle a week-long PROFItch Certified Network Engineer Class (a \$2695 value) at classes. A certificate for 5.5 Professional Development Hours (PDH) is awarded to attendees at all Classes.
- **Webinars:** We also hold Webinars at regular intervals. Most are archived [here](#), covering Industrial Ethernet Basics, PROFINET, Wireless, and PROFIBUS in the Process Industries. There's also a 'Diagnostics for PROFINET and other Industrial Ethernets,' webinar to stimulate you." Do you have a topic that might be ideal for a webinar? Suggestions welcome [here](#).
- **Web-based Training:** Our educational prowess includes remote learning possibilities. Try our PROFIBUS Web-based Training for Cabling and Assembly, [here](#).




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**VISIT SPS/IPC/DRIVES - THE TIME IS RIGHT!:** We know it happens in Thanksgiving Week but why not take the time to visit the SPS/IPC/Drives fair in Nuremberg, Germany November 26-28? It's one of the best automation fairs in the world and is always packed with great ideas, products, seminars, workshops, demonstrations and more. PROFINET and PROFIBUS technologies will be there in strength of course and PI will again have a large booth designed to show the best offerings from member companies. There'll be a chance to see PROFIenergy explained ([see below](#)). Also on display will be PROFIsafe, PROFIBUS PA, PROFIdrive and IO-LINK. There will multi-vendor demos showing some of the best products, services and solutions you'll find in the automation world! Experts will be on hand to answer questions. There's also a joint forum organized by PI and the Interbus Club, at




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which expert speakers will present technology topics once every hour. And of course, the 20th anniversary of PROFIBUS will be celebrated too!

WHERE? Nuremberg, Germany

WHEN? November 24 - 26, 2009

WHICH HALL? Hall 6

WHICH BOOTH? Booth 210.

PTO staff members will be there; we look forward to seeing you!

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**PROFInergy COMES TO A BOIL!:** PROFInergy is a new vendor-neutral energy saving profile for PROFINET, aimed at network-supported energy optimization in large manufacturing plants. The Automation Initiative of German Automobile Manufacturers (AIDA, comprising Audi, BMW, Mercedes, Porsche and Volkswagen) asked PI to provide suitable network mechanisms for PROFINET. Saving energy can be achieved in many ways. The most obvious is shutting off all the power though this is usually only possible during idle times. But what happens during shorter breaks when equipment continues running and and so consumes energy even in the absence of value-adding activities. Over an extended period, switching off a device for even 30 seconds can be worthwhile in cases such as lasers. It's possible to go even further. For example, in today's automotive industry, several car models may run on the same production line, so it might be possible to respond to fluctuations in sales by selectively shutting down model-specific portions of the plant. This degree of selectivity is not easily achieved and needs sophisticated management. PROFInergy will facilitate new and forward-looking energy policies for AIDA. Standardized network commands will instruct devices to move into various energy-saving modes. It's now in final review and presentations of its scope will be given at SPS/IPC/Drives in Nuremberg, November 24th - 26th. Download our [White Paper](#) on PROFInergy

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**BLOGGING AND TWEETING WITH PTO:** PROFINET is the fifth Beatle of automation and a star in its own right - at least that what a recent PROFBlog claimed. It also has a good ring it added - star, tree and ring in fact! The blog also reports that a large number of North American device manufacturers are adding PROFINET to their products now. Additional information for this kind of need has been created offline for developers. [Read the blog](#) to find out how to get this. You can [Tweet with Carl](#)\* these days too.

*\*Tweeting? "In case you don't know, a tweet is a short broadcast posting from [www.twitter.com](http://www.twitter.com) which you can pick up on your PDA or smartphone. For PTO its a fast way to distribute news items and PTO's Carl Henning is using the service more and more to alert automation readers to relevant topics."*

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PROFIpeople - FACES IN THE NEWS



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**MANNY JOINS PTO:** A well-known face in the world of OPC has joined PTO as Director of Technology Marketing. Manny Mandrusiak formerly worked in a marketing role for Matrikon in Canada, but has now moved to Scottsdale AZ to supplement PTO's efforts in support of PROFIBUS and PROFINET. Manny was a member of the Canadian forces before joining Matrikon.



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## APPLICATIONS

**FRANCE / BIODIESEL:** Cargill, the US family business set up in 1865, now employs more than 160,000 people in 67 countries. In France, Cargill employs 2000 plus across 15 sites and buys between 10 and 15 per cent of France's grain and oil-bearing seed output. It recently commissioned a new rape seed crusher capable of handling up to 600,000 tons of seed a year. [More here.](#)



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## MEMBER NEWS

**NEW ASIA OFFICE:** Networking tools and diagnostics company PROCENTEC - represented in North America by Grid Connect - has established a regional Competence Center in South East Asia and Oceania. The aim is to better support regional needs to provide quicker response to customers in the Asian region. [GRID CONNECT.](#)

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## WORLD NEWS

**UK:** The PROFIBUS Group has launched an on-line newsletter called 'PROFINews UK'. It delivers a wealth of information on the UK Group's activities, including events, training and support for users of the world's most successful fieldbus, PROFIBUS and associated technologies such as PROFINET and PROFIsafe.

**JAPAN:** The Japanese PROFIBUS Organization (JPO) has translated the book 'Industrial Communication with PROFINET' by Mr. Manfred Popp into Japanese. JPO translated the previous version of the book (The Rapid Way to PROFINET) in 2005. However, the new book provides a technology update. JPO expects



more companies to start developing PROFINET devices soon.

**DENMARK:** In September, PROFIBUS Denmark participated in Scandinavia's largest industrial fair, HI2009 in Herning, Jutland.

**INDIA:** The formation of an Indian PI Association (IPA) has gathered momentum. In September more discussions were held about the proposed constitution. Legal formalities should be completed shortly. Universities are emerging as a key part of the proposed IPA since they will open opportunities for students and teachers to participate in the development of the new PROFIBUS devices.



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## NEW PRODUCTS

**BLUETOOTH FOR PROFINET:** A Bluetooth Ethernet or PROFINET/PROFIsafe connection can be set up in less than one minute using two FL BT EPA Ethernet port adapters from Phoenix Contact. The user only needs to select a predefined operating mode to have both wireless modules configure themselves automatically. Configuration and control can be via web browser, the application program via Ethernet, or via a function block. The adapter can find new access points or other Bluetooth modules. [PHOENIX CONTACT](#).



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**STUDENTS' TOOL:** PROCENEC has created a simplified version of ProfiTrace 1 specifically for technical schools and students. Called Profitrace EDU, the device provides technical schools and universities with an affordable tool that can help create more graduates fit to be employed in industrial automation. With ProfiTrace, students can see what is happening on the bus cable and fully understand industrial data communication. The price has been globally set at around EUR 200. [GRID CONNECT](#).



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**QUANTUM DP-V1 MASTER:** The PROFIBUS DP-V1 Master Communication Module (PTQ-PDPMV1) enables Schneider Electric Quantum processors to access field data from up to 125 PROFIBUS DP slaves. Field Device Tool (FDT) and Device Type Manager (DTM) standardize the interface between systems and field devices to simplify configuration and to assist in asset management. For applications that cannot afford downtime, Hot Standby allows the PROFIBUS network to be controlled by two Quantum/Unity processors so that should the primary power source fail, the secondary module will switch into primary mode in less than 300 milliseconds. The module supports 1536 bytes of acyclic I/O data transfer. [PROSOFT TECHNOLOGY](#)



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**REMOTE I/O to PROFIBUS DP:** ProSoft Technology allows users to



incorporate PROFIBUS DP devices and equipment into legacy Allen-Bradley Remote I/O control networks using the Remote I/O to PROFIBUS DP Master-V1 and slave gateways. These solutions allow plants to bring in new processes and equipment made available by the PROFIBUS DP communication protocol without having to replace existing legacy equipment. The stand-alone, DIN-rail mounted industrial gateways are particularly useful for applications that have no possibility of using a protocol interface module in a processor due to network or space constraints. [PROSOFT TECHNOLOGY](#)



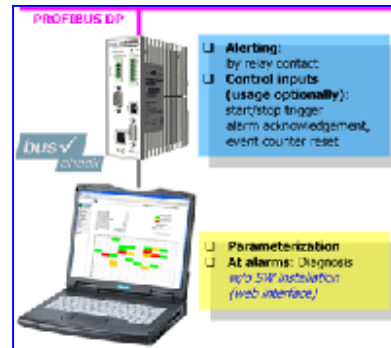
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**DEVICE COUPLERS RECEIVE FACTORY MUTUAL APPROVALS:** The Trunksafe TS200 Fault-Tolerant Fieldbus System from MooreHawke has received three major certifications through Factory Mutual (FM). Trunksafe modules provide a cost-effective and highly reliable strategy to maintain continuous communications between field devices and a host system in the event of a single point failure (such as any open single wire) on a PROFIBUS PA segment. ATEX-Type N, IECEx-Type N, and cFmus-General/Ordinary Location and Non-Incendive certifications have been received from Factory Mutual. [MOORE INDUSTRIES INTERNATIONAL.](#)



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**THE INSPEKTOR CALLS!:** Softing has a new firmware version of its [PROFIBUS-Inspektor](#) available as a [free download](#). PROFIBUS-Inspektor detects even subtle, initially uncritical deteriorations in network communications by continuously monitoring the network traffic against a set of 'fieldbus-health' indicators, with individual thresholds for alarming. If maintenance action is required, the tool automatically alerts maintenance staff. It attaches to a network without interfering with operations and does not occupy a PROFIBUS address or require a change in a PLC program. Just connect, says Softing! [SOFTING.](#)



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**UNIVERSAL GATEWAY:** Hilscher added more than 70 additional conversions to its NetTAP 100 gateway, designed for the interconnection of real time Ethernet systems, traditional fieldbuses and serial protocols. In addition, there's netSCRIPT, a scripting tool that allows users to easily and quickly create custom gateways for serial protocols to over 60 different industry standard protocols. netTAP already offers standardized Master or Slave support for EtherNet/IP, DeviceNet, PROFIBUS, EtherCAT, PROFINET, CANopen, PowerLINK, SERCOS III, MB-TCP, Modbus RTU/ASCII, AS-I Master and CC-Link. netSCRIPT is included as a DTM along with the configuration tool SYCON.net which is an FDT based configuration tool. [HILSCHER.](#)

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**PROFINET IRT INTERFACE MODULE :** The Anybus-S PROFINET interface is an embedded PROFINET IRT solution



according to conformance class C. The module uses Siemens' PROFINET IO stack for IRT and the ERTEC 200 ASIC, providing integrated switch functionality. All analog and digital components that are needed for a complete PROFINET IO interface with isochronous real time (IRT) are mounted on the module, which has two SC-RJ Fibre Optic connectors and allows installations in line or ring topologies. It's also standardized in hardware, software and functionality with all other Anybus-S modules. [HMS](#) [INDUSTRIAL NETWORKS](#).



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