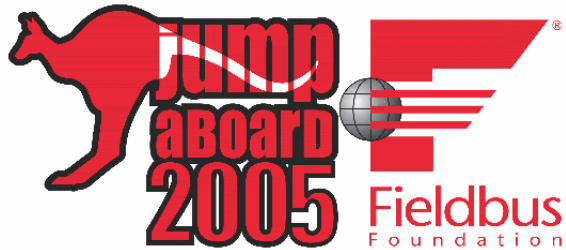


a dozen reasons you & your manager should attend



1. Rich Timoney – Fieldbus Foundation – Austin, Texas “FF Future Technical Directions”

This presentation will describe new developments underway at the Foundation including:

- DD Extensions to IEC 61804-2
- Safety Instrumented Systems (SIS)
- Information Integration ... HSE, OPC DX/UA

2. **Keynote** – Greg Belcher – Honeywell, Australia – “Interoperability Testing”

This presentation will explore “testing” questions and take a close look at what all technology providers, either of host systems or devices, are doing to make FOUNDATION Fieldbus work for everyone.

3. Ian Verhappen – ICE-Pros, Canada “FF Commissioning Practices”

The digital communications capability of Fieldbus networks and their associated “plug and play” feature enable changes to be made to the traditional way in which field device commissioning is performed. This paper discusses how these differences can be used to reduce the field commissioning time on a typical project.

4. Craig Webb – Honeywell, Australia “Methodology to access and interpret the wide variety of FF data”

A key architectural component of FOUNDATION Fieldbus is the provision of access to diagnostic information about device behaviour, performance and condition. The wealth of information available is generally accessible rather than being published providing a basis for remote and automated diagnosis of problems to initiate rapid corrective action rather than just a mechanism for initiating general alerts/alarms. To get full value from the indications available in FF devices, a methodology is needed to access and interpret the wide variety of indications in the context of the condition of the device and the potential impact on the production process.

Honeywell implements control solutions that utilise FF valves and instruments from a wide variety of vendors affording us some insight into what is standard and what is not in relation to the implementation of device diagnostics in resource and transducer blocks. The nature of device diagnostic information available and how it can be accessed and utilised will be explored as will the use of diagnostic information to improve management of FF device condition.

5. Simon Marsh – MTL, USA “Innovative Physical Layer Design” (Reliable Fieldbus Installations)

The presentation will look at the various schemes that are available for providing power to Foundation fieldbus H1 networks in safe and hazardous areas. References to existing installations will be included, highlighting the user's reasons for selecting each topology. The latest methods for reducing per-segment cost, while maintaining highest levels of system availability, will be described, together with examples of how the power supply function can be integrated into proprietary fieldbus control systems. Attention will be paid to the merits of diagnostic functions, based on field experience of typical failure modes for fieldbus installations.

Recent developments in hazardous area protection techniques will be presented, such as the standardisation of FISCO (Fieldbus Intrinsically Safe Concept) and FNICO (Fieldbus Non-Incendive Concept). These techniques will be compared with alternative solutions such as 'fieldbus barriers', giving the relative strengths and ideal type of application for each architecture. Other approval regimes for fieldbus wiring components will also be summarised, indicating their suitable zones of use.

6. Andreas Agostin – Pepperl+Fuchs Pte Ltd, Singapore “From ‘Case study’ via ‘Application’ to ‘Lessons learned’: FuRIOS-2”

In 2002, the worldwide operating companies InfraServ Hoechst and Aventis Pharma (now Sanofi Aventis) performed a comparison study between a real world installation using conventional technology and a comparable planned installation using Fieldbus. This study soon became known as “FuRIOS”.

Almost three years after the publication of the results, a number of plants used the proposed technology and serve today as case studies for future Fieldbus applications.

Aventis used **FuRIOS** as feasibility study to realize their own project with 1600 fieldbus devices. DSM is operating their “Vitex” plant based on **FuRIOS** since June 2004, and Novartis build three **FuRIOS** plants with a total of more than 8000 fieldbus devices.

These three companies agreed to share their field experiences and serve as basis for the analysis of the potential cost savings.

The paper highlights design and installation aspects as well as experiences during start-up and commissioning. All introduced plants use multi-vendor instrumentation, so that even aspects caused by potential incompatibilities are analysed.

**7. Mike O'Neill - Director - Fieldbus Division - Moore Industries, UK
"Truly Redundant Fieldbus Segment Wiring Technology for FF H1 Systems"**

FOUNDATION Fieldbus is becoming the first choice communications protocol for process control systems, allowing advanced field diagnostics and sophisticated plant communications networks to be easily implemented via relatively simple bus-powered wiring technology. One of the restricting factors in the uptake of this technology is that the physical layer technology used does not naturally allow for redundancy. Power supplies (conditioners) and interface packages (FF H1 cards) can be made redundant, but all device communications are dependent upon the performance and integrity of a single twisted pair cable.

This paper introduces a completely new and secure solution for fieldbus segment cabling, which is the final piece necessary to make 'control in the field' truly acceptable when used in conjunction with redundant DCS system interfaces and redundant segment power supplies. The paper describes the technology used to make the physical layer redundant, demonstrates its performance in an industrial application and outlines the software changes necessary to allow any DCS package to reliably interface with field devices through redundant media. The paper shows how the technology builds on current expertise in wiring practices for Manchester-encoded bus-powered 2-wire systems, and requires no changes to the design and operation of field devices.

Finally, the paper describes the impact of such a redundant wiring system on the choices for hazardous area protection technology, with a prediction that intrinsic safety as a technique will be completely overshadowed by a return to non-incendive and explosion proof solutions for FF systems.

**8. Eugenio da Silva Neto - Endress+Hauser Process Solutions-Switzerland
"High Speed Ethernet – Promoting Openness in Hybrid Control"**

Many tasks in Process Automation require a combination of continuous and sequential control. Developments in Ethernet-based backbones, however, are increasingly addressing the problems of high-speed, real-time Factory Automation only. There is one exception: FOUNDATION Fieldbus High Speed Ethernet.

This paper shows, on the basis of practical examples, how High Speed Ethernet supports hybrid control through standard and flexible function blocks, provides flexible solutions by bridging fieldbus

networks and allows the use of both FOUNDATION Fieldbus and PROFIBUS solutions when the application demands it.

**9. David Gonzalez – ABB Australia P/L
"Optimising Plant Assets - Availability and Performance"**

Knowledge is the most precious commodity in business today. Production facilities employing real-time Plant Asset Management (PAM) systems significantly increase process uptime while reducing maintenance costs. With data originating from a variety of devices and systems, information is readily available from various plant. The challenge, however, is having relevant information available at the right time, in the right form, and for the right people.

With Asset Optimization, continuous improvement initiatives such as plant-wide adoption of predictive and proactive maintenance strategies minimize unscheduled shutdowns and optimize product quality. These initiatives result in a higher return on assets and ultimately operational excellence.

Asset management in plant automation is a mean to realise higher plant availability and improved operating efficiency, reducing Total Life Cycle Cost. This paper will address the benefits of establishing a Plant Asset Management System for plant automation.

**10. Ian Verhappen – ICE-Pros, Canada
"Benefits of using Zone Classifications for fieldbus installations"**

One of the constraints or boundary conditions that apply to every fieldbus installation is the plant environment and associated electrical area classification. Each of these electrical area classifications have different requirements that must be met to insure a safe and reliable operation.

This presentation provides a summary of the area classifications encountered in a typical fieldbus environment along with the associated technologies available to maximize the number of devices that can be installed on a network.

11. Question and Answer Session

This session will give the delegates an opportunity to ask questions and get answers from the FF technical "experts".

12. FF Technology Tabletops

Key suppliers of Fieldbus technology will be demonstrating the latest equipment providing you a "hands on" opportunity to see and feel "technology that works, at work."

Please place a printed copy of this brochure on your notice board