



FROM THE NEW EDITOR

Dear Reader, welcome to the 22nd edition of the FFEUC Aust newsletter.

*With the winter blues almost behind us and with the warmer weather approaching, I thought I would add a touch of **colour** to our normally rather bland highly informative interoffice document type newsletter.*

*Indeed it is always difficult to develop a collective handshake with the reader or a rapport with cold impersonal technology which generally leaves one with little trace of any enduring emotional landmarks or evocative pictures in ones mind,.. ummm, and so, though, self conscious and feeling unworthy of the privilege as editor, I have decided to confront the terror of failure & rejection, and by mustering as much nervous energy and adrenalin together I have endeavoured, in this issue at least, to produce an **attention grabbing**, high impact, colourful, passionate and informative newsletter, while I still have the job!.*

“Before thinking yourself too important, remember that the size of your funeral depends on the weather”

*In this **bumper issue** we have concentrated predominantly on the upcoming **Foundation Fieldbus Conference** to be held on the 14th of September in Melbourne & the 16th of September in Perth. (See news & events)*

*The usual features include notes from the chair, **NEWS & EVENTS**, Training information, Fieldbus Forums, Hot off the wire, Ask the Guru and more.*

Hope you enjoy the newsletter, don't forget to send your questions, stories, complaints to, “ASK the Guru”

Here's wishing you all a wonderful summer, a long life, prosperity, & a job!

*FFEUC W.A. Editor Dave Edge
<mailto:dedge@samsoncontrols.com.au>*

FROM THE CHAIR

Hello everyone, I trust that you are all very busy, with the economy booming here in Australia things are hectic to say the least. This is certainly reflected in the number of new projects that are in the pipeline around the country. As a result we have seen increased interest in Foundation fieldbus since both companies and their third party contractors have decided to take it up. This is especially true in the case of the mining and oil and gas industry.

Your FFEUC committee has been busy beavering away over the past few months and of course our focus is now on our major event Jump Aboard 2005. We have a subcommittee chaired by Allen Tighe which has already completed much of the necessary arrangements to make this a FF seminar to remember. The dates are 14th September in Melbourne and 16th September in Perth so now is the time to schedule it in your diary. We again have a range of International speakers who will speak to the theme "Get Smart- Implementing Foundation fieldbus". These include Rich Timoney, President of the Fieldbus Foundation and Ian Verhappen, Chair of the Foundation fieldbus End User Advisory Council

We thank our sponsors for helping to make this event possible, Honeywell (Gold), MTL and Weidmueller (Bronze). There are Silver and Bronze sponsorships still available so if your company would like to be a part of this event we are still in a position to accommodate you. Also companies have an opportunity to take up table tops in the mini expo, these are being taken up quickly and since space is limited it is a question of first come first served.

For full details on the event, sponsorship or table tops see <http://www.fieldbus.org.au/JA05info/JA05home.htm>

Our training courses are becoming very popular and we have noted an increased interest and attendance over the past few months, reflecting the technology uptake. Our investment in the training kit continues and should the demand continue it is likely that we will be budgeting to increase the number of kits from the present three to five in 2006.

On the international front we have continued our participation as a member of the FFEUAC and I thank Tiong Lim for his great work in this regard. Lim has been having input on the Electronic Device Description Language project which is very important to us as end users.

The FF Safety project is still on going and thus the word is "Do not use FF for safety related applications" as it needs to go through all the technological checks and certification "loops" first. First products are realistically likely to be around 2007.

Late in July I attended a meeting in Melbourne to again attempt to kick off a fieldbus group there. I say "fieldbus" because we have found that it has been virtually impossible to start a subcommittee in the Eastern States because we have been unable to get a core committee together. There was good interest with 16 people attending. Thus, hopefully we will be able to get this moving as a "fieldbus" group, using the larger interest base to get more people involved.

On a personal front after something like 7 years as Chair of the FFEUC-Aus I intend to step down at the AGM in September since it is time that we had some new "blood" to move the End User council forward. Therefore we are actively pursuing some end users to consider taking on the role. If there is anyone who is interested and would like to find out about what commitment is required please give me a call. I will however remain on committee as "past chair". I am pleased to have seen and assisted the technology move from the bus wars, through the early adopter phase to where it is today, a proven system which is being embraced by industry.

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Email: <mailto:jimrussell@iceweb.com.au>



“THE MAIN EVENT”

‘Jump Aboard 2005 is here’ !!

GET SMART- Implementing Fieldbus:

DON’ T miss the event of the year, Jump aboard 2005 is here, registrations are filling fast with only 30 days to go. (<http://www.fieldbus.org.au/JA05info/JA5-rego.pdf>)

Melbourne 14th September.
Perth 16th September.

*The event promises to be **rich, entertaining** and..... **provoking**. The international line up of speakers are amongst the most respected Foundation Fieldbus experts in the world; they promise to **astound** us with news of **future directions** and technology, to **enthral** us with practical examples of, **hybrid control, The implementation & Commissioning**, of FF systems, **innovative physical layer design, asset management**, and **performance monitoring!!***

Rated MA- *The audience is warned that the conference is for open minded Instrument & Control Engineers, Technicians, Electronic & Electrical Engineers of all ages, Project managers & **control...** professionals.*

We take no responsibility for mind changing effects after attendance.

``Be Warned-`` *Engineering that will provoke!
Real life experiences by tested professionals!
New Ways of doing it,.. on the Fieldbus!*

*This promises to be the “Cannes” of Foundation Fieldbus conferences, **an event not to be missed.***

*If this doesn’t **wet your appetite** then your tastebuds are sure to be **tantalized** by the Huge array of **exhibits** from vendors and around the world, including such greats as; **Honeywell**, (“Approaching Business Problems more Intelligently”), **MTL**, (“The Terminators”), **Weidmüller**, (“Connections on the Bus”), **Pepperl & Fuchs**, (Your Signal or Mine”), **Hawke** (“Wiring your segment”), **Moore Industries**,(Lets interface some more”), **Samson Controls** (“13 million full cycle- operations”), **Endress & Hauser** (“Open up to Hybrid Control”), **ABB** (“Improve your performance”) and the **FFEUC-Aus** (“Let your dreams come true”).*

IF YOUR NOT CONVINCED BY NOW – SEE YOUR DOCTOR.

JUMP ABOARD 2005- Sponsorship opportunities are being snapped up already for JA05, with both Honeywell,MTL & Weidmuller planning a huge event-more to come & more sponsorship opportunities available.

GET SMART- Implementing Fieldbus:

This Foundation™ Fieldbus End Users Council Australia (Inc) seminar is a major event which brings together international experts to present their experience around the practical theme of "GET SMART – implementing fieldbus".

WHO:

Keynote Address by Honeywell
Rich Timoney (President of the Fieldbus Foundation Austin Tx)
Ian Verhappen (ICE-Pros Canada)
Craig Webb (Honeywell Aus)
Simon Marsh (MTL US)
David Gonzalez (ABB Aus)
Andreas Agostin (Pepperl & Fuchs Singapore)
Eugenio da Silva (E+H Europe)
Mike O'Neill (Hawke UK)

WHAT:

International speaker's presentations cover a diverse subject range including;

- Openness in Hybrid Control (HSE)
 - FF Commissioning Practices
- Fieldbus Foundation – Future Technical Directions
 - Online Performance Monitoring
 - Asset Effectiveness & Savings
 - Redundant FF H1 Segments
 - Plant Asset Management
- Innovative Physical Layer Design

WHERE & WHEN: (NOW)

FF conference:

Melbourne Wed / 14 Sep
Box Hill Institute of TAFE
<http://www.bhtafe.edu.au>

Accommodation –Emerald Hotel- call Grant 08 94810866

Perth Fri / 16 Sep
Emerald Hotel – Perth CBD
<http://www.ehp.emeraldhotel.com.au>

Accommodation –The Tudor Box hill-call Anna 03 98989581

DON'T MISS THIS EXCELLENT OPPORTUNITY



GET SMART- Implementing Fieldbus:

HOW TO PART WITH YOUR MONEY:!!!!

Complete the form below and take your first steps to 'implementing Fieldbus' with Foundation fieldbus technology.

Full Conference delegate (**early birds get a free Swiss handy card**) \$395 [] (pay before Sep 1st)
(AmEx card payments – US dollars) \$320 []
Educational Institute Staff (no handy card) \$195 []
Student / Apprentice attendee (no handy card) \$50 []
Please copy / print this page and fax the completed form to :- (08) 9214-2786 – attn :- TS Lim

Vendors – take this opportunity to display your fieldbus capable products to many keen minded conference goers. Tabletop exhibition space is available for a very reasonable cost. Take up a table top exhibit and we'll discount the entry fee for one delegate from your company. (SEE BELOW)

Please make your cheque payable to FF-EUC Aus Inc with the registration form to :-

FOUNDATION™ Fieldbus End User Council Australia Inc.
Jump Aboard 2005
P.O. Box Z5546,
Perth, Western Australia 6831

Terms and Conditions

FF-EUC Aus Inc. is a non-profit organisation and therefore not registered for GST. Price includes a CD-ROM with the papers & slides, conference handouts, lunch and all break refreshments. Visa & Master card payments accepted – surcharge may apply.

Cancellation

A 10% fee will be will be charged if cancellation is made in writing 10 working days prior to the start of the seminar/workshop. After this time, no refund can be made.
The FF-EUC Australia Incorporated reserves the right to change / cancel the events due to insufficient registration or other reasons beyond its control.

Full Name: _____

Position: _____ Company: _____

Address: _____

City: _____ State: _____ Postcode: _____

Tel: _____ Fax: _____ Email: _____

Credit Card: _____ Card type: _____

Name on Card: _____ Exp Date: _____ / _____ / _____

Table Top Exhibitor (included conference fee for 1 delegate - 1 venue) \$595 []

Table Top Exhibitor (included conference fee for 1 delegate - 2 venues) \$1090 []

Table Top only (one venue, i.e. Perth or Melbourne) \$300 []

Table Top only for two venues (i.e. Perth and Melbourne) \$500 []



LATEST INFORMATION VIA THE FFEUC-AUS WEBSITE

For the latest information on all FFEUC-Aus Inc activities and some great Foundation fieldbus technical data please visit our website <http://www.fieldbus.org.au>

TECHNICAL MEETINGS:

Our aim over the next year will be to focus on the new **FF Engineering Guide**.

Go to the web site and have a look at the engineering guide, this could save you a lot of work !!

TRAINING:

A Fieldbus Intermediate Design & Configuration course (HSE / OPC / HMI) is being prepared for Q3 next year.

As mentioned by the chair, the provision of “hands on” training kits have proved invaluable at a basic configuration level, more kits being planned for 2006, where we can hopefully use them for further training both in house, at technical colleges and universities. We must thank again all sponsors who donated equipment.

CENTRE OF EXCELLENCE:

We are moving forward with the Australian Oil and Gas Industry Training Centre which is a new facility being built in Henderson.

(More on this hot topic in future issues stay tuned –editor)

EASTERN STATES - DON'T FORGET “THE MAIN EVENT” FF conference:

Melbourne Wed / 14 Sep

Box Hill Institute of TAFE

<http://www.bhtafe.edu.au>

WEBSITE:

Take a look now, don't read any more of this newsletter, go directly to the website & do not pass go, if you register for the FF conference EARLY collect a free Swiss card. <http://www.fieldbus.org.au>

CAUGHT YOU:

You are still reading this please take a trip on the board back to WEBSITE, see above, IF YOU FIND YOURSELF IN A RACE CONDITION, pay your fee and register for the event: 14/09 Melb , 6/09 Perth.

Go to our web site now & register for the main event!!

New website, The address is <http://www.fieldbus.org.au> . This site is linked to the International FF site <http://www.fieldbus.org>

NEWS & EVENTS:

(Editors tip)- If you are planning a holiday in the USA or Singapore why not attend a course and claim it on tax.

October 11+12, 2005

FOUNDATION™ Fieldbus Certified Course: User Implementation of Foundation Fieldbus.

Closing date for registration is OCTOBER 03.



Nov 3-4, 2005

The Fieldbus Foundation announced that Genzyme, a leading biotech company, will host a comprehensive FOUNDATION fieldbus seminar on Nov. 3-4 in Cambridge, MA. The event will include hands-on instruction in the use of FOUNDATION fieldbus control systems, and feature presentations by leading worldwide experts in fieldbus technology.



Did you know that **Fieldbus Forums** is a new online community for the exchange of fieldbus information?

This interface lets FOUNDATION fieldbus technology experts, end users, product suppliers, and others around the world interact in an open, web-based community—and it's available to members and non-members. **Fieldbus Forums** makes it easy for those with an interest in fieldbus to find answers to their questions about the technology, and learn from the experiences of their counterparts across the globe.

To register for **Fieldbus Forums** go to <http://www.fieldbus.org/Members/>

FOUNDATION™ Fieldbus Training in Australia

The SAIT essentials 1 day training is still available, please contact <mailto:allen@fieldbus.org.au> for further details.

NEW!

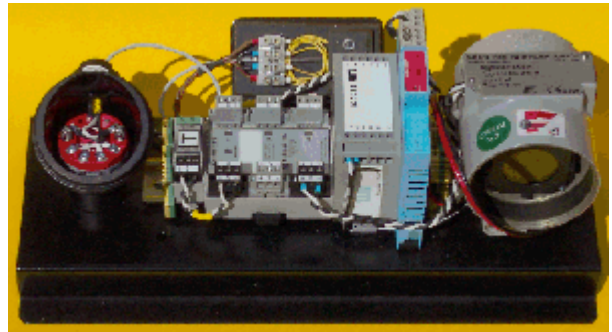
The *Configuration* training course is aimed at personnel who have completed the "Essentials" course or some equivalent pre-requisite basic course in Foundation Fieldbus (FF). Personnel who need to attend are staff who would have any technical involvement with the Engineering and / or Maintenance of a FF installation.

Included with the course is a full-colour comprehensive instruction manual, but it is suggested that attendees bring their previous course manual as a basic FF reference.

The one-day workshop covers many practical aspects of a Fieldbus installation, including four hands-on sessions with a PC workstation, a typical FF certified Host & process control instrumentation.

The course practical content contains sections on : -

- **Constructing a typical FF H1 segment**
- **Network setup and instrument checkout**
- **PID loop build & schedule downloading**
- **H1 packet analysis via a software package**



The training is certified by the FF End User Council Aus Inc and was created by the Council in response to end user requests for a hands-on experience. This *Configuration* training is a pre-requisite to the higher level of *HSE/OPC Integration* training which is also planned by the FF-EUC Aus Inc. Instructors are certified by both the Foundation and the FF-EUC Aus Inc to present the training courses.

For Course Registration or more details on custom onsite courses

call Allen on (041) 295-5656 or (08) 9243-0161

email: <mailto:training@fieldbus.org.au>

<http://www.fieldbus.org.au>

Editors Note: New systems are being built and will address; Fieldbus Intermediate Design & Configuration course (HSE / OPC / HMI)



Editors note: if you experience difficulties in configuring or wish to search for your registered fieldbus device, you can download the Device Description and Capability Files for Registered Devices, visit: <http://www.fieldbus.org/ProductsAnd Services/Registered Products/> for specific information regarding your device.

DID YOU KNOW...the Foundation's Technical Documents are available online? Click <http://www.fieldbus.org/About/FoundationTech/Resources/> to view or download the following;

- Wiring and Installation Application Guide (31.25 kbit/s Voltage Mode)
- 31.25 kbit/s Intrinsic Safe Systems
- Technical Overview
- Function Block Capabilities in Hybrid/Batch Applications
- System Engineering Guidelines

Loads of Free Fieldbus papers and Information: ICEweb has a huge amount of FF and other fieldbus technical papers on its Fieldbus page, see <http://www.iceweb.com.au/Instrument/fieldbus.htm>

Lost to the engineering profession -Gordon Hutchinson has retired from Weidmueller after many years of service and we would like to acknowledge his enormous contribution to the FFEUC-Aus. (Perhaps we can persuade him to come out of retirement and join the committee!)

Emerson digitally automates \$2.7 billion Shanghai SECCO Petrochemical complex see http://www.emersonprocess.com/home/news/pr/507_secco.html

SECCO claims the ethylene cracker plant's start-up time of 10 hours 45 minutes as a world record for a project of this scale. **Ten interrelated plants** with one integrated control room. 47,000 control loops. 40,000 instruments. The world's largest FOUNDATION fieldbus installation.

SAMSON AG -Samson announces new digital positioners certified by the foundation - Type 3730-5 / 3731-5

A powerful microprocessor enables the Type 3730-5 Positioner to communicate over FOUNDATION™ Fieldbus. Its integral PID controller and its ability to become a LAS allow it to create control loops for controlling the process directly in the field. In addition, the Type 3730-5 offers various functions and parameters to optimize the control such as an adjustable tight-closing function, various characteristics, adjustable transit times, limitation of the travel range, etc.

See <http://www.samson.de> for more information.

User's corner: The Fieldbus Foundation's new "End User Corner" forum is filling up with success stories— proof of the market's growing interest in, and demand for, FOUNDATION fieldbus. This forum presents the knowledge of experienced fieldbus end users and provides a way to share the solutions only FOUNDATION technology delivers. Here are some typical questions and responses;

"I am an Engineer student and I am preparing a research about Profibus PA and Foundation Fieldbus. For this research, I need a case study about the differences of these two technologies. Does anybody have any case study about this comparison?"

- A simple comparison table is given in chapter 2 of the yellow book "Fieldbuses for Process Control: Engineering, Operation, and Maintenance" buy online:

<http://www.isa.org/fieldbuses> (Jonas Berge SMAR)

- As a starting point for your research, you might review some of the differences between these two bus technologies. We have a couple of multimedia tutorial slides that can help. You may download them from:

<http://www.hmtutorials.com/downloads/H1PAI.exe>

<http://www.hmtutorials.com/downloads/H1PAII.exe>



These are both just over 4.5 MB downloads. To play these clips requires a sound card with speakers or headphone, a VGA graphics adapter and monitor capable of 256 colors or more and 800 x 600 minimum display resolution.

Other clips illustrating the benefits of Foundation Fieldbus can be found at:

<http://www.hmtutorials.com/Downloads.htm>

If you are not registered for Fieldbus Forums, to sign up go to <http://forums.fieldbus.org/register.php>

Editors Note: Failures are also a great teacher, own up, let us know how easy it is to make mistakes!

Learn fieldbus and Ethernet at your own pace: <http://www.isa.org/fieldbuses>

Learn OPC and automation software at your own pace: <http://www.isa.org/autosoftware>

TIPS FROM THE GURU 2

1. Observing the Time distribution packet type within a H1 network confirms that the LAS is synchronizing the time over the segment and among the devices within the segment.
2. Make sure when downloading the Capabilities file from the internet that the “Always use this program to open this file” box is **unchecked**.
3. A Flexible Function Block (FB) is similar to a standard FB except that the function of the block, the order & definition of the block parameters and the time required to execute the block are determined by an application –specific algorithm created by a programming tool. Flexible Function Blocks (FBs) are typically used for control of discrete processes and for hybrid (Batch) processes.

Ask the Guru- For more tips, visit : website <http://www.fieldbus.org.au> “Ask the Guru”

Or direct to: <mailto:guru@fieldbus.org.au>.

All for Now Folks- Trust you found something worthy. ED.

Whilst every effort is made to ensure technical accuracy of the information in this newsletter, the Fieldbus Foundation End Users Council Australia Incorporated accepts no liability for any loss or damage caused by error or omission from the data supplied. Users should make and rely on their own independent inquiries. By accessing the newsletter users accept this condition.

Should you note any error/omission or an article offends please do not ignore it, contact the secretary <mailto:jim@fieldbus.org.au> and we will review, rectify and remove as necessary.

Finally should you wish to be removed from the mailing list, please send an email to <mailto:jim@fieldbus.org.au> with the subject header “PLEASE REMOVE FROM FFEUC EMAIL”

