

DeviceNet Technology Forum 2002

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Register now for DeviceNet Technology Forum 2002 – the richest source of practical and technical DeviceNet information and an opportunity to learn about the latest developments and directions.



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Cost

Monday 8 April 2002	- \$300.00 plus GST to non-members	\$.....
	<i>(Note : charge is per company)</i>	
	- \$28.00 (GST inclusive) lunch	\$.....
	- \$40.00 (GST inclusive) dinner	\$.....
Tuesday 9 April 2002	- \$28.00 (GST inclusive) lunch	\$.....
TOTAL		\$_____

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Please send me an Accommodation Reservation Form : YES/NO



Kiah Hion Tang is a well-respected member of the international fieldbus community, and is a regular contributor to CAN-related newsgroups on the Internet.

Kiah now works from Malaysia as a freelance CAN/DeviceNet consultant and provides valuable technical input to the ODVA and Warwick Control Technologies. Until recently Kiah was responsible for the day-to-day running of Warwick University's CAN labs, and the operation of the ODVA DeviceNet Europe Technical Support Centre, which included the ODVA Conformance Test Centre.

Prior to this he studied for his PhD, researching into the feasibility of using DeviceNet over 29-bit CAN and has more than 10 published papers.

While at Warwick University as a Research Student, Research Fellow, and Senior Research Fellow he;

- Assisted in establishing the DeviceNet Europe organisation.
- Set up and managed the DeviceNet Europe Technical Support Centre (DESTC) to assist and encourage vendors to develop DeviceNet products.
- Established DeviceNet training (developers and end users), Pre-test, and consultation services.
- Managed the official ODVA DeviceNet Composite Testing laboratory.
- Managed several independent CAN, DeviceNet, and EtherNet/IP email discussion groups.
- Has been an active member of various ODVA and EtherNet/IP Special Interest Groups (SIG):
 - DeviceNet Conformance SIG
 - DeviceNet Physical Layer SIG
 - DeviceNet System Architecture SIG
 - EtherNet/IP Conformance SIG
 - EtherNet/IP Physical Layer SIG
 - EtherNet/IP Enabler SIG
- Assist/Organise various DeviceNet and EtherNet/IP trade shows in the European region.
- Published DeviceNet technical papers and attended conferences in the area of CAN and DeviceNet.
- Designed and patented a low cost CAN busload meter.
- Designed and developed several CAN/DeviceNet related software tools, and successfully commercialised them.

<p>DeviceNet for Product Developers <i>Kiah Tang</i></p> <p>A three-hour presentation on the key issues to address when considering developing a DeviceNet device. Understanding the DeviceNet specification, development stages and preparation for conformance testing are discussed along with participation in Special Interest Groups. Until very recently Kiah Tang operated the UK DeviceNet conformance test laboratory and conducted many research projects on the use of DeviceNet for industrial manufacturing applications and assisted many companies with DeviceNet product development.</p>	<p>EtherNet/IP technical Presentation <i>Kiah Tang</i></p> <p>An overview of EtherNet/IP technology and how this technology will benefit many applications in industry. Topics covered include;</p> <ul style="list-style-type: none"> • Requirements and Functional Definition of Scanner and Adapter devices, Bridging and Routing, System Functional Requirements and System performance requirements. • Device Profile design, object definitions, Diagnostic, debug considerations, hardware and software component selection • Performance considerations, error-handling considerations.
<p>DeviceNet for Newcomers <i>John Lamb - Manukau Institute of Technology</i></p> <p>An overview of the key features of DeviceNet and important factors that ensure a successful installation. The presentation is designed for engineers and trades people who are required to specify or install DeviceNet and understand the requirements for installation and testing.</p>	<p>DeviceNet Technology Update <i>Graeme Meyer - ODVA Asia/Pacific Facilitator</i></p> <p>An update on the acceptance of DeviceNet Technology in New Zealand and worldwide. An overview of technical developments for DeviceNet and EtherNet/IP and inclusion in International Standards. The effect of the introduction of OPC – DX.</p>
<p>NetAlert DeviceNet testing <i>Electrical Importing Company</i></p> <p>The use of the correct equipment can make fault finding fast and effective. An overview of NetAlert tools developed specifically for diagnosing and faultfinding DeviceNet networks</p>	<p>RSNetWorx™ MD <i>Greg Hormann - Rockwell Automation</i></p> <p>RSNetWorx MD for DeviceNet is a maintenance and diagnostic subsystem that provides pre-configured diagnostic analysis and troubleshooting information, for the DeviceNet network. (MD stands for Maintenance and Diagnostics). These advanced maintenance and diagnostic oriented features are coupled with the proven configuration management features provided by RSNetWorx for DeviceNet.</p>
<p>X-Analyser DeviceNet Analyser <i>Kiah Tang</i></p> <p>A tutorial on the use of CAN analyser software to test and measure the performance of a DeviceNet network. Developed by Warwick Control Technology this software can be of benefit when analysing networks.</p>	<p>Modular training options for DeviceNet <i>John Lamb - Manukau Institute of Technology</i></p> <p>An overview of the different types of DeviceNet training available. The needs of a specifier, designer, installer and systems integrator are overviewed and the types of specific skills for each task are outlined.</p>
<p>Industrial Ethernet <i>Winston Fong</i></p> <p>The presentation is an extensive research report on the suitability of Ethernet as a technology for use in the industrial automation environment. The purpose of the presentation is to make the potential user aware of some of the issues that need to be considered before adopting Ethernet technology on the plant floor.</p>	<p>Distributed Control on DeviceNet <i>Peter Tait - Tait Control Systems</i></p> <p>DeviceNet is the network of choice for Tait Control Systems product developments. TCS has found that DeviceNet is not just an I/O medium but is an ideal technology for the interfacing of all serial devices.</p>
<p>Open Network Controllers <i>Martin Gouffe - Omron Electronics</i></p> <p>Open network controllers provide users and integrators with a cost effective platform for integrating all types of manufacturers industrial networks into ERP/MES and SCADA systems; it also enables web monitoring of control information and can act as a primary controller simultaneously.</p>	<p>DeviceNet Instrumentation Development <i>Electrical Importing Company</i></p> <p>DeviceNet has been utilised in the timber drying industry to provide a low cost solution for interfacing several DePump kilns to a central control and monitoring system with access via modem. The development of instrumentation on DeviceNet allows full flexibility for the operators and maintenance staff.</p>
<p>Freezer Stacking System with DeviceNet <i>Marc Marchal – Schneider Electric</i></p> <p>A case study on a recent project involving DeviceNet, VYSTA and an Elite Drive at Anchor Te Rapa for a multi level freezer stacker positioning system.</p>	<p>Industrial vs Office Ethernet Cabling Systems <i>Alan Schischka – Connector Systems</i></p> <p>The requirements for engineering cabling systems for DeviceNet and Ethernet on the factory floor require the selection of suitable products. The use of low cost Ethernet products does not always mean a successful installation.</p>
<p>Integrated Condition Monitoring & Plant Asset Management <i>Grant Webb, GMS Asset Manager - Rockwell Automation</i></p> <p>Industrial Automation solutions, for working with and sharing information between everything from the plant floor to a company's Enterprise Management System. These solutions can allow systems to improve return on investment for any manufacturing facility, by increased efficiencies in maintenance practices. Topics relating to DeviceNet include; Computerised Maintenance Management Systems, Overview of ICM (Integrated Condition Monitoring) Asset Management Solutions.</p>	<p>Industry Group Discussions</p> <p>Time has been allocated in the program for discussion by the various industry sectors on how DeviceNet technology can be used to benefit that industry in New Zealand. The ODVA globally is seeking initiatives where enhancements to the specification can advance the use of the technology in any specific industry sector.</p> <p>Each discussion group will be chaired by a neutral chairman.</p>