

# Events Round-up

ST Elect shares its experience and showcases its products at international events

As a mark of acknowledgement of its strong ruggedisation capability by the international community, ST Elect was invited to present a paper at the **International Flotherm Users Conference** at Las Vegas, USA. World-class companies such as Lucent Technologies, Hewlett-Packard, Siemens AG, Intel, Nokia, Johnson Mathey, Compaq, Fujitsu, Raytheon, Ericsson and Philips also participated at this conference.

The paper 'Thermal Analysis of an Electronic Enclosure in Harsh Working Environment' was presented by a member of the 'ruggedisation' team, Mr. V. Chinniah from the Advanced Industrial Design group, at the Flotherm Users Conference.

The paper outlined COTS (Commercial Off The Shelf) ruggedisation and the challenges involved in it. Details of the thermal design and subsequent improvements attained in an 'Electronic Enclosure' were also presented.

The use of high-end application software tools like Pro Mechanica and Flotherm facilitates the understanding of thermal behaviour and helps to estimate the level of ruggedisation required. This is very crucial, as the equipment sizes are becoming more and more compact. With the increase in packaging density, the transportation of heat is multidimensional and follows an irregular surface topology that creates a complex fluid flow.

Details of this conference paper can be viewed at: Technical Paper Ref. No. T229 <http://www.fiotherin.com>

With the experience and expertise gained in this field, ST Elect's Advanced Industrial Design Group looks forward to more challenging ruggedisation problems and market opportunities to help others in this increasingly demanding aspect of product engineering.

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**Cable & Satellite '99** is Europe's most vital and focused spring time forum for the convergent digital broadcast and communications industry. New for this year's show is a focused area of the show dedicated to business communications, VSAT and multimedia services required by corporate end users.



Agilis' booth at the Cable & Satellite '99 exhibition

During the show in May 99, Agilis Communication Technologies (ACT) presented its new range of VSAT (Very Small Aperture Terminal) Ka, Ku and C Band, RF (Radio Frequency) Transceivers, Satellite Modems and Multiplexer products.

In particular, ACT presented its new range of cost effective, high performance and reliable C-band (ALB 1 80), Ku-band (ALB128) and Ka-band (ALB138) Block-up-converters (BUC). The new BUC design, incorporates various important design techniques and enhancements in order to serve the growing market of broadband two-way asymmetric access for Multimedia applications. The end-user terminal consists of a small disk antenna, BUC and an IDU (InDoor Unit) that enables regional ISPs to offer high speed ISP connectivity to corporate users, public sectors and consumers throughout Western and Central Europe.



ST Elect's booth at CommunicAsia '99

ST Elect's Communication & Sensor Systems Group (CSG) took up a booth area of 42 square metres at **CommunicAsia '99** - the 11th Asian International Information & Communications Technology Exhibition & Conference.

The CSG comprising CET Technologies & Agilis Communication Technologies showcased several products: DigiSAFE VPN & Encryptors, Steganography,

Cetrac™ Mercury, SuperneT, RFID Book Drop Station, eduPAD and VSAT.

Mr. Yeo Cheow Tong, Minister of Communications and Information Technology visited ST Elect's booth, paying special interest on the 'eduPAD'.

About 1300 participants including leading industry players from over 40 countries attended the exhibition. Many trade visitors showed keen interest in ST Elect's products and the response was very encouraging.

**IMDEX Asia '99** is a dedicated international, high technology exhibition and conference, together with visiting warships in support of their countries' naval and commercial exhibits. Its dedicated maritime focus addresses the needs of shipbuilders and related equipment/systems suppliers as well. ST Elect participated in full force, displaying products ranging from Encryptors, Cetrac™ Mercury, RFID tags, VSAT, SOCC console, Page Display & System Integrator. Chartered Electro-Optics was also in our booth, featuring Hand-Held Thermal Imaging, Infra-Red Camera and Multisensor Stabilised Payload. About 275 exhibitors participated in this event.



Rear Admiral (NS) Teo Chee Hean, Minister of Education and Second Minister for Defence visiting the ST Elect booth

ST Elect was positioned next to ST Marine under the common banner of ST Engg. The booth, situated just in front of the main entrance, enjoyed a good flow of traffic. Guest-of-Honour, Rear Admiral (NS) Teo Chee Hean, Minister for Education and Second Minister for Defence, visited the ST Elect booth.