

Culham Exhibition Diary Extra

tomorrow's technology for today

9th & 10th June 2004 Pulse Power & Measurements



Pulse Power and Measurements (PPM) returned to exhibit at Culham to take advantage of meeting fusion engineers and scientists at Culham. The opportunity to meet these groups in such comfortable surroundings has become an important part of PPM's year. Maintaining relationships and developing an understanding of customers' technical needs is a principal part of PPM's sales approach.

PPM Sales Manager, Dave Willford said, "Fusion and other high-energy physics activities being carried out at Culham, create a strong interest in our low voltage and high voltage power supplies. Continued interest in our very high voltage DC and pulsed voltage monitoring, along with comparable DC and pulsed current monitoring devices, reinforces PPM's contribution to fusion and similar types of high energy physics research here."

For further information please contact Dave Willford on 01793 784389, email: dwillford@ppm.co.uk, or visit our web site: www.ppm.co.uk

23rd June 2004 Varian Vacuum Technologies Limited

Varian Vacuum recently exhibited at Culham and used this showcase to demonstrate scroll dry pumping technology, thanks to the kind loan from UKAEA of a marshmallow expanding vessel! Varian set up a working demonstration of the 'Incredible Expanding Marshmallow' by exposing them to a vacuum providing a light-hearted illustration of the effects of lack of atmosphere.

Dave Archer, Varian's Account Manager said, "Scroll dry pumping technology, whilst not new to the vacuum industry is now becoming increasingly more appealing with

volume production causing units to become very cost effective. The benefits of these dry scroll pumps outweigh those of the traditional rotary. One particular benefit highlighted during conversations with UKAEA staff is the issue of contaminated vacuum oil removal - scroll pumps have no oil therefore reducing costs and waste at the same time."

Varian also had on display a 'MiniTask', a total vacuum pumping solution in one package offering 'point of use' high vacuum which uses no other services than power. Discussions yielded a number of applications that might benefit from this solution.

For more information on Varian Vacuum Products please call either the UK office on 01932 898000 or Dave Archer - Account Manager on 0771 407 1145. Alternatively visit the web site www.varianinc.com where details of all the products can be found as well as E-Commerce.



7th July 2004 Keithley Instruments

Keithley Instruments Sales & Applications Engineers were on site to provide product information and demonstrations of some of their latest test and measurement solutions.



Peter Lancaster, Keithley Account Manager said "The turnout was excellent and there was a great deal of interest in our precision low current/voltage source and measurement products, particularly in our new 6220 & 6221 DC & AC current sources which are ideal for Hall measurements, resistance measurements using delta mode, pulsed measurements, and differential conductance measurements."

They also exhibited their latest 2182A Nanovoltmeter, the successor to the 2182, which represents the next step forward in Nanovoltmeter technology. With new enhancements like pulse capability, lower measurement noise, faster current reversals, and a simplified delta mode for making resistance measurements in

combination with a reversing current source, such as the models 6220/21, the 2182A brings a new level of precision DC measurement capabilities to the researcher.

Peter added, "We would like to thank everyone who took the time to stop by to visit and would like to invite anyone who did not have a chance to either visit our web site or contact me for more information about our products. We will be organising some on-site product demonstrations in the very near future and look forward to coming back to exhibit again next year."

For further information please contact Peter Lancaster on 0118 929 7500, email: lancaster_peter@keithley.com, or visit our web site: www.keithley.com.

HOERBIGER ORIGA

Hoerbiger-Origa wins contract to supply actuators to MAST

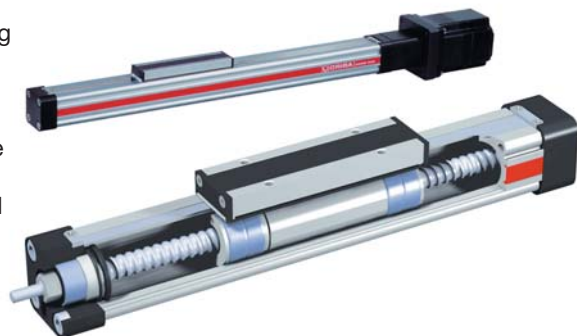
Congratulations to regular exhibitors at Culham Hoerbiger-Origa who have won a contract to supply the MAST experiment with actuators from their standard OSP range.

The actuators are being used in an Electron Bernstein Wave (EBW) launcher with an array of 21 steerable mirrors that can direct the microwaves to any point of the plasma. Movement of the mirrors is created by the servo driven ballscrew actuators upon which they are mounted. The actuators have to be accurately

engineered but robust to allow them to stand up to the mechanical torque and environmental conditions generated within the tokamak.

MAST Research Engineer and Fusion Industry Champion Julian Hawes explains "The external design of the Hoerbiger-Origa units enabled mounting in the close confines of the MAST experiment. Internally, we were looking for an actuator that could settle to its position accurately. Between pulses we have time to conduct experiments and collect data as the plasma is generated for only one second. There are mechanical limits to any mechanism, and we had to ensure that anything

we designed was able to meet our specification. In the future there may be experiments that require the mirrors to track the plasma. Therefore, speed, repeatability and smooth operation are also important."



Contracts bulletin

The Contracts Bulletin is UKAEA's quarterly, external publication to its contracting and supplier community, and has been in existence for some 10 years. It covers, wherever possible, all work to be competitively tendered by UKAEA. It also covers site topics, safety issues and other information of relevance and interest to our contractors and suppliers.

Latest information on UKAEA's requirements is advertised weekly on the UKAEA web site (www.ukaea.org.uk/contract/cindex.htm) which supplements the Contracts Bulletin. Status updates of previously advertised projects are also published, as are details of contract

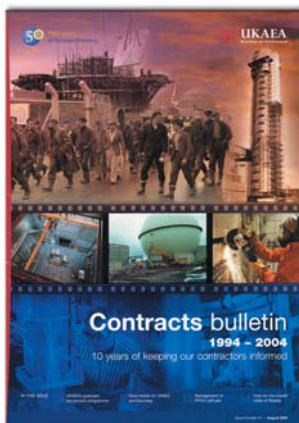
awards, which enable small and medium enterprises to identify their own market place.

UKAEA is subject to the public authorities' provisions of the EU Public Procurement

Directives. Works, Supply and Services contracts, and contracts with values reaching thresholds of £3.2M and £150K respectively must be advertised in the Official Journal of the European Union (OJEU). The OJEU is published daily and is available from The Stationery Office. Alternatively, you can access Tenders Electronic Daily at <http://ted.publications.eu.int>.

OJEU advertisements must appear in the Journal before being repeated in any other publication. UKAEA provides links from the Contract Opportunities page of its web site to Tenders Electronic Daily.

Short, easy-to-follow guides are provided both in the Contracts Bulletin and on the UKAEA website on how suppliers and contractors should express interest and whom you contact.



Visitors' Book

"The turnout was excellent and there was a great deal of interest in our precision low current/voltage source and measurement products."
Peter Lancaster, Keithley Instruments.

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Dave Archer, Varian Vacuum Technologies Limited.

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Dave Willford, Pulse Power & Measurements.

Future Exhibitions at Culham

MKS Instruments	15th	September	2004
Schroff UK	29th	September	2004
Micromech	13th	October	2004
Lemo UK	3rd	November	2004
Sandvik Materials	17th	November	2004
Fischer Connectors	1st	December	2004

If your company would like to stage an exhibition at Culham please contact deniese.willis@ukaea.org.uk or call 01235 466608.