

If you cannot view all images, please open this email in your browser.



## B Cryo : NASA, CERN, Oxford and more

May 2011

### Dear Reader,

The effect of the Japanese earthquake in March touched many of us, including members of the Cryogenic Cluster, and our thoughts have been with them.

Cryogenic Cluster Member Sumitomo's cryogenic factory, remote from Fukushima, suffered few effects and is finding 'work-arounds' to deal with power outages, transport delays and supply chain issues. Aside from nuclear worries, the high level of LNG imports to Japan serves as a reminder of their need to combine cryogenic and seismic engineering. It may be some time before a clear picture of the outcome is available for LNG activity in the area. In the meantime, there is an expectation that LNG may have a significant role in making up any shortfall in nuclear power.

Back at B Cryo Base, we had a fantastic reception to our new Newsletter. Thank you for all the positive feedback we received. We'd also like to welcome two **new** members of The Cryogenic Cluster this month – read on to find out more.

Do pass this issue on to anyone you think may be interested but is not yet receiving B Cryo and and if you have anything to report, get in touch via [cluster@bcryo.org.uk](mailto:cluster@bcryo.org.uk).

[Click here](#) to subscribe to this newsletter. The previous issue is available if you [click here](#).

Best Wishes from all of us at B Cryo !

### B Cryo Clips



## Congratulations to LTI Metaltech

Growth in its vessel fabrication business has encouraged LTI to invest £1.5m in expansion. At the opening ceremony, Dr Martin Dare-Edwards (Chairman of Oxfordshire Local Enterprise Partnership) praised LTI and the world-leading Cryogenics Cluster. [Read more information here.](#)



## And The Winner is....

The 2011 Nicholas Kurti European Science Prize, sponsored by Oxford Instruments, has been awarded to Prof Mathias Kläui, working on studies at the nanoscale in Switzerland. He combined lab-based techniques using cryosystems, with synchrotron-based microscopy. Applications for the award (which includes an €8,000 cash prize) were assessed by a committee chaired by Professor Pickett of Lancaster University.

Meanwhile, with Oxford Instruments going through its close period (prelims for the year to 31 March will be released on 14 June), performance has apparently 'exceeded expectations.' Adjusted PBT is projected to be 'not less than £25m.' More on the [Oxford Instruments' news page](#) here.



## It's Not Rocket Science...

..but NASA are involved. Historically, cryogenic pumps used for propellant loading at Kennedy Space Center (KSC) have a bellows mechanical seal and oil bath ball bearings, both of which can require high maintenance. Using knowledge gained over the years, the KSC Cryogenics Test Lab determined alternative bearings materials that would be suitable. [Read more details here.](#)



## Seriously Big

The one million litre HT 1000 vacuum-insulated LNG tank from Chart's Ferox subsidiary in the Czech Republic weighs 212 tons, and measures 48 metres long with a diameter of nearly 6 metres. This makes it the largest shop-built tank of its type – unless you know of a bigger one? [More information can be found here.](#)



## CERN Market Surveys

A range of opportunities is coming up at CERN during the year. Forged components made of OFE Copper (Market Survey Q3, Invitation to Tender Q4), a Furnace for heat treatment of Nb<sub>3</sub>Sn superconductor (ITT Q2), the cryogenic system for the High Intensity and Energy (HIE) ISOLDE experiment (ITT Q2). [Read more information here.](#)

## Cluster Activity

May 17: The Q2 round of Cluster Working Group meetings should see the launch of the Skills Group, thanks to support from the Oxeta training company and Oxford Brookes University.

May 18: The next Cluster Marketing meeting is on the Harwell Campus at 2pm.

May 19: Cluster Technical Group meeting on the Culham Campus at 9.30am where the new Manufacturing Technology Centre will be giving a presentation.

July 13: The Cluster Summit will take place on the Oxford Science Park at 4pm. The meeting will be addressed by Dr Martin Dare-Edwards, a keen supporter of the Cluster.

September 28: Cluster Day, including seminars, trade show and lab visit – at Rutherford Appleton.

## Other Events

A comprehensive guide to events with a cryogenic connection can be found on the [British Cryogenic Council \(BCC\) website](#).

## New Members

**Herose Limited** was formed in 1999 to support Herose GmbH globally. In addition they have introduced other proven manufacturers who supply the industrial gas, cryogenic and LNG industries. A recent example is Generant, who make cryogenic pressure regulators, safety and relief valves. The Stewart clan is the driving force behind Herose from their UK base, with Clan Chief Keith a legend in the industry. Find out more from the [Herose website](#).



**Cryolab** is the new name for Laboquip, one of the newest members of the Cryogenic Cluster. They are Cryogenic and Laboratory Equipment Suppliers from Bognor Regis run by Paul Hague. One of the Cryolab lines comes from Cryo Bio System [CBS] – it's a bench-top system for sealing high security straws and tubes for high quality cryopreservation of biological samples. Anyone looking for more information should in the first instance contact Paul via [info@cryolab.co.uk](mailto:info@cryolab.co.uk).



Organisations wishing to join the Cluster should get in touch via [cluster@bcryo.org.uk](mailto:cluster@bcryo.org.uk). In return for British Cryogenics Council support for B Cryo, Cluster Members are required to become Corporate Members of BCC at <http://www.bcryo.org.uk/join.php>.

[A full list of cluster members can be found in the directory section in the first issue of our newsletter.](#)

[www.bcryo.org.uk](http://www.bcryo.org.uk)  
[cluster@bcryo.org.uk](mailto:cluster@bcryo.org.uk)



British  
Cryogenics  
Council

You have received this issue of our newsletter because you requested it or I thought you would find it useful. If you would rather not receive any more issues, please [follow this link](#).

If this issue has been forwarded to you and you would like to receive regular issues, please [follow this link](#).

