

# B Cryo

## BRITISH CRYOGENICS

### Cluster Day and Beyond

SEND THIS TO A FRIEND

Dear [\[\[name\]\]](#),

First the bad news – if you weren't there, you've missed Cryogenic Cluster Day for this year. Bigger and better than before, we had the memorable combination of an opening address by Sir Martin Wood and the perfect sequel from Professor Harry Jones, Chairman of the British Cryogenics Council. Drawing on their personal experience, no-one listening could be in any doubt why the Cryogenic Cluster, centred on Oxford, is the most powerful concentration of cryogenic expertise on earth. You can read more on Cluster Day later.



And for the good news – you can set your clocks **now** for **The 2012 Olympic Cryogenic Cluster Day** which will be on Wednesday **September 26!**

Best Wishes from the Team at B Cryo

## B Cryo News



### Protecting the Green Sawfish

Chevron's monster Australian Wheatstone LNG project recently gained a key stage of environmental approval after 625,000 man-hours of assessment, helping move towards final investment in the 9 million ton pa project. The little-known green sawfish, discovered in the assessment, is now subject to further study to ensure it is

properly protected. [Click here for more.](#)



### Cold Storage

Following an event at the University of Manchester on August 31, with visiting speakers from York, Bristol and Newcastle Universities, S-Lab (the UK's Higher Education Initiative for Sustainable Laboratories) has produced a Briefing Paper on Effective, Energy-Efficient Cold Storage. [Click here to read it.](#)



### Seriously Large ITER Cryostat

With a price tag of €100m and dimensions of 30 metres in height and diameter, the ITER cryostat weighs in at 3,400 tons. Being built in segments in India, sub and final assembly will take place in Cadarache. [Click here for more.](#)



### Mercury Practically Zero

If you weren't able to attend MT22 in Marseille, [here is a 12-minute video from ITER](#) given its official debut there. It celebrates 50 years of applied superconductivity.



### Filling Stations in Space

NASA has selected Boeing to design, manufacture and test two lightweight composite cryogenic propellant tanks. For US\$24m NASA expect to achieve 30% weight and 25% cost savings over metal tanks. Heavy-lift, exploration vehicles, and 'in-space propellant depots' could use such tanks up to 10m diameter in future. [Click here to read more.](#)



### On-Line Shopping at Apiezon

Cluster Member M&I Materials, maker of Apiezon high-vacuum grease, has opened an on-line store to complement its global distribution network. [Click here for the story](#) or [click here to go to the Apiezon Shop.](#)

## Cluster Activity

After the exceptional start to Cluster Day 2011 at Rutherford Appleton Lab on

September 28, given by Sir Martin Wood and Professor Harry Jones, the link between cryogenics and the space community was developed by Bryan Shaughnessy from RAL Space and Udo Althaler from RUAG Space in Vienna.

Optional lab visits to RAL Space, the Diamond Light Source, the main Cryogenics Lab and the ISIS Neutron Source ran concurrently with a thriving trade show, which included Claridge Scientific, Kelvin Technology, LTi MetalTech, Mach-Tech, Nexans, Oxford Instruments, PECO Cryogenics, Safety Gas Detection, Stratox, the University of Southampton and Wessington in addition to Cryox-STFC and the British Cryogenics Council.



One seminar session for Cluster Members illustrated the breadth of its expertise, with MRC-Harwell (part of The Medical Research Council), Air Products and ICEoxford all describing their activities. The final session, chaired by Dr Martin Crook from STFC looked ahead to cryogenic applications in energy storage (Highview), fault current limiters (Applied Superconductor) and quantum computing (Oxford Instruments). Approximately 120 attendees, mainly from the UK, but also France, Germany, Austria and USA, enjoyed the best weather England can bring in September – we look forward to everyone coming back next year on September 26 with as many friends and colleagues as they can bring!

The Q4 Cluster Meetings in November are Skills on November 15 at Siemens Magnet, Marketing on November 16 at Harwell and Technical at Culham on November 17.

## Other Events

Go to the British Cryogenic Council (BCC) website at <http://www.bcryo.org.uk/events.php> for a guide to international cryogenic events.

## New Members

If you're not already a member, it's time you were! Cluster Members are exclusively from UK, and need to be Corporate Members of the British Cryogenics Council. BCC however is open to Organisations, Individuals and International Members who can join the BCC with the click of a mouse at <http://www.bcryo.org.uk/join.php>

## Distribution

If you'd like your colleagues, customers or contacts to receive B Cryo, you can supply your mailing list in complete confidence to Dianne Beechey at Appletree, who independently maintain the distribution list for us. Or you can point them to [sign up independently by clicking here](#). Do pass on B Cryo to anyone you think should get it – and don't forget that you can download previous issues from the home page of the BCC website at <http://www.bcryo.org.uk/>

## LinkedIn

B Cryo readers are also welcome to join the British Cryogenic Cluster group on LinkedIn by [clicking here](#).

## Contact

If you want to get in touch, if there's anything you'd like to share, or anything you'd like us to report, please contact us via [cluster@bcryo.org.uk](mailto:cluster@bcryo.org.uk). We look forward to hearing your news!

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

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