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B Cryo

BRITISH CRYOGENICS

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Dear Reader,

Time to act FAST if you' d like to attend Cluster Day at Rutherford Appleton on September 28 and haven' t booked yet. [Click here book your place](#) so we can plan the coffees and lunch! If you' d like to book a table-top exhibit, [click here to contact Mark Wells](#).

Cluster Day promises to be a great event – we' re even expecting visitors from Europe and the USA, so make sure you don' t miss out.

August saw lots of Cluster activity. The Technical Group meeting was joined by Doug Thornton and Steve Elliot from the British Compressed Gas Association. There was a great exchange and building of foundations for future cooperation based on considerable overlap of cryogenic interests.

The Marketing Group launched an open group on LinkedIn and you can [click here to join](#) and share your thoughts and views. The Marketing Group made a submission for the Cryogenic Cluster to the Department of UK Trade & Industry for a government promotion of British capabilities of interest to Large Research Facilities round the world. One great example amongst the Cryogenic Case Studies came from CVT & Scientific Magnetics, demonstrating the special strength which can result from collaboration between Cluster Members. CVT and Scientific Magnetics joined forces on 3D superconducting vector magnets operating in high vacuum.

The new Cluster Skills Group also had an excellent meeting hosted by Siemens Magnet Technology recently, promising great things to come in Cryogenic Training from Oxeta, and from Southampton and Oxford Brookes Universities who also took part.

So momentum is building in the Cryogenic Cluster - and we look forward to seeing you on Cluster Day!

Best Wishes

from the Team at B Cryo

Cryo Clips



Energy from Combustible Ice for Japan

Use of methane hydrate as a fuel is not new, but interest has been re-kindled in Japan post Fukushima. Typically residing below the permafrost or seabed, it turns to water & natural gas when melted or de-pressurised. SmartPlanet carries recent coverage [here](#).



Testing Satellites up to the Size of a Bus

At physicsworld.com, Giles Case from RAL Space describes what's involved in testing equipment for space, baking out complete spacecraft to 50-60°C and simulating the expected thermal conditions the satellite may encounter. [Read the article here](#).



Gold for Graham

Dr Graham Batey, working for Oxford Instruments NanoScience, has been awarded the Business and Innovation Gold Medal of the Institute of Physics. He won this award for his "sustained outstanding contribution to the application of low temperature physics in an industrial high technology environment." [More here](#).

Oxford Cubed

Oxford Instruments also announced its '14 cubed' strategy – aiming for 14% compound revenue growth, and Trading Profit on sales of 14% by 2014.

And congratulations to Oxford Instruments from B Cryo on being promoted to the FTSE 250 Index on the London Stock exchange!!

Cluster Events & Activity

Our second Cryogenic Cluster Day at Rutherford Appleton Lab on September 28 will see more visitors from Europe than last year and a bigger trade show with new exhibitors including Boiswood, CryoService, Stratox, LOT Oriel and Nexans. The final programme and list of exhibitors is [available by clicking here](#).

After Sir Martin Wood and Professor Harry Jones launch proceedings, Dr Bryan Shaughnessy will talk about cryogenics in space. Then Udo Althofer from RUAG will speak about multi-layer insulation – which will be the subject of a demonstration on this year's tour of the RAL Space Lab. In the seminar sessions in the afternoon, MRC Harwell, Quantum Production & ICEoxford will illustrate the diversity within the Cluster. The programme ends with a look ahead at applications including quantum computing, energy storage and superconducting fault current limiters from Oxford Instruments, Highview Power Storage and Applied Superconductor

Register now by clicking here. For table-top exhibition space, please contact mark.wells@stfc.ac.uk.



Oxeta Launches Cryogenic Training

Local advertising in Oxfordshire announced Oxeta's launch of cryogenic training. Arrangements are being explored for endorsement of suitable cryogenic training activity by the BCC. More at www.oxeta.com

Other Events

A comprehensive guide to events with a cryogenic connection can be found on the British Cryogenic Council (BCC) website at www.bcryo.org.uk/events.php. We're thinking of stealing the ' Majors' concept from the world of golf, so watch out for developments here and let us know if you think we have the correct pick of events to track. We look forward to Cluster Day being one of them.

New Members



Sheffield University

Richard French leads cryogenic activity in High Energy Physics, with cryogenic cooling of material irradiation, work on ATLAS and its upgrade at CERN, quantum computing, & development of connector-less joining of thin-wall

cryogenic transfer tubing. More via www.shef.ac.uk

Organisations wishing to join the Cluster should get in touch via cluster@bcryo.org.uk. In return for British Cryogenics Council support for B Cryo, Cluster Members are required to become Corporate Members of BCC.

Who else do you know who would like to receive B Cryo? Their details will remain confidential and you can send them this issue and suggest they [subscribe by clicking here](#).

As always, you can get in touch via cluster@bcryo.org.uk if there's anything you feel we should report, or news you want to share. Please send us your news too and we will share it in a future issue of the newsletter.

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