

# NMR DISCUSSION GROUP

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A Subject Group of the Royal Society of Chemistry  
Charity Registration No. 207890

## NMR Discussion Group Christmas Meeting

Date of meeting: Wednesday 15<sup>th</sup> December 2010

Meeting venue: Institute of Child health  
Guilford Street  
London WC1N 1EH

Dear Member,

One of the principal objectives of the NMR Discussion Group is to provide a forum for educating, sharing ideas and promoting recent developments in NMR and related disciplines. The group continues to provide such opportunities for scientists that work in many different areas associated with magnetic resonance. This is achieved through, in addition to other means, the popular Christmas meeting.

The forthcoming Christmas meeting comprises presentations covering a range of subjects, including recent developments in materials characterization, metabolism and imaging. It is intended that the presentations will be of interest to the majority of spectroscopists of differing backgrounds, either through direct relevance or through potential applicability. An agenda is attached for your information.

The meeting will take place on Wednesday 15<sup>th</sup> December at the easily accessed Institute of Child Health, London.

A map of the venue for the NMRDG meeting is shown below, with an arrow indicating the location of the main building. Alternatively, a map of the location can be found at:

<http://www.streetmap.co.uk/newmap.srf?x=530518&y=182154&z=0&sv=wc1n+1eh&st=2&pc=wc1n+1eh&mapp=newmap.srf&searchp=newsearch.srf>

The Institute of Child Health is within 10 minutes walk of Euston, King's Cross and St Pancras main line stations. Russell Square on the Piccadilly line (dark blue) and Holborn on the Piccadilly and Central lines (red) are the nearest underground stations, and are within walking distance.

If you would like to attend please complete the on-line registration form using the link from our web site <http://www.nmrdg.org.uk/> Registration will close on **Friday 3rd December** and the standard fee is £40.00. However, if you are a student/retiree, then a concessionary rate of £20 will apply. **Should you not wish to attend the meeting, but would like to continue receiving information about NMRDG activities, please provide your contact details to Stephen Byard at [Stephen.byard@sanofi-aventis.com](mailto:Stephen.byard@sanofi-aventis.com)**

Please note that the date of meeting has been chosen in conjunction with the BRSg, who will host a meeting "Electrons and Nuclei: DNP, ENDOR and NMR of paramagnetic compounds" at the nearby Institute of Physics, on Tuesday 14<sup>th</sup> December 2010.

Yours sincerely,

Dr Paul Hodgkinson and Dr Po-Wah So, Meeting organisers  
Dr Stephen Byard, Sanofi-aventis, NMR DG Secretary



# NMR DiscussionGroup Christmas 2010 Meeting

Wednesday 15<sup>th</sup> December 2010

**Institute of Child Health, 30 Guilford Street, London WC1N 1EH**

***Morning session chair: Paul Hodgkinson, University of Durham***

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|---------------|--|
| 10.00 – 10.25 | Registration and refreshments  |
| 10.25 – 10.30 | Introduction and welcome   |
| 10.30 – 11.15 | <b>Clare Grey, <i>University of Cambridge</i></b><br>Optimising Structure and Function in Lithium-Ion Batteries and Fuel Cells: New In-situ and Ex-situ NMR Approaches |
| 11.15 – 11.35 | <b>Jan Novak, <i>University of Birmingham</i></b><br>Magnetic Resonance Imaging of Chemistry in Flow   |
| 11.35 – 12.10 | <b>Michael Overduin, <i>University of Birmingham</i></b><br>Drug discovery targets: tackling kinases, phosphatases and membrane proteins                               |
| 12.10 – 12.45 | <b>Steven Thomas, <i>GlaxoSmithKline, Ware</i></b><br>Metabolite ID, don't forget your old data  |
| 12.45 – 14.00 | Buffet Lunch   |

***Afternoon session chair: Po-Wah So, Kings College, London***

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|---------------|--|
| 14.00 – 14.15 | NMRDG Business   |
| 14.15 – 14.50 | <b>Jimmy Bell, <i>Imperial College, London</i></b><br>To be announced  |
| 14.50 – 15.25 | <b>Peter Thelwall, <i>University of Newcastle</i></b><br>Developing and applying in vivo <sup>13</sup> C MR spectroscopy in clinical research            |
| 15.25 – 15.45 | <b>Hannah Davies, <i>University of Liverpool</i></b><br>NMR studies of protein fibrils associated with cardiovascular amyloid disorders                  |
| 15.45 – 16.25 | <b>Kevin Brindle, <i>University of Cambridge</i></b><br>Imaging tumour metabolism using hyperpolarized <sup>13</sup> C – Detecting response to treatment |
| 16.25 – 16.30 | Closing remarks  |
| 16.30 -       | Refreshments and departure   |