



UNIVERSITY OF LEEDS

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An Interest Group of the Royal Society of Chemistry
Charity Registration No. 207890

NMR in Biophysics and Molecular Biology

Date of meeting: Wednesday 10th - Thursday 11th April 2019

Meeting venue: Conference Auditorium 2
University of Leeds,
Woodhouse Lane,
Leeds,
LS2 9JT

Dear NMR Spectroscopist,

One of the principal objectives of the NMR Discussion Group is to provide mechanisms 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. On this occasion, we are delighted to be hosting a joint two-day event in conjunction with the British Biophysical Society, facilitating exchange of information from cutting-edge research activities in Biophysics and Molecular Biology. **There will also be opportunities to present posters and meet informally with other research workers. In particular, early career research workers are encouraged to attend the event, and bursaries will be made available to those who submit an abstract which is accepted for either a poster or short oral presentation. Sponsored prizes will be offered for best poster and best short oral presentation. See below for abstract submission deadlines.**

Whilst the event is dedicated to NMR in biophysics and molecular biology, it is intended that the meeting programme will be of general interest, offering educational content to an

audience beyond spectroscopists directly associated with biological or biophysical NMR. This may be either through direct relevance or through potential applicability.

Tours of the modern, recently installed, NMR and cryo-TEM facilities available in Biological Sciences at the University of Leeds, will also be offered during the meeting.

The forthcoming meeting comprises presentations covering a diverse range of subjects and is scheduled to take place on **Wednesday 10th – Thursday 11th April 2019** at the easily accessed Conference Auditorium, University of Leeds. Relevant maps showing the venue location within Leeds are shown below, and also complementary information can be accessed using the link <https://www.meetinleeds.co.uk/location/getting-to-the-university-of-leeds/#toggle-id-3>

A full meeting programme is shown at the end of this letter. Invited speakers include:

- Alvar Gossert - ETH Zürich, Switzerland
- Bob Griffin – Massachusetts Institute of Technology, USA
- Ulrich Gunther – University of Birmingham
- Gabi Heller – University of Cambridge
- Józef Lewandowski – University of Warwick
- Steve Matthews – Imperial College, London
- Jennifer Potts – University of York
- Sheena Radford – University of Leeds
- Christina Redfield – University of Oxford
- Michael Sattler - Technische Universität München, Germany
- Katherine Stott – University of Cambridge
- Geerten Vuister – University of Leicester
- Anastasia Zhuraleva – University of Leeds

Additional helpful information is presented in following sub-sections. On behalf of the Royal Society of Chemistry NMR Discussion Group, British Biophysical Society and University of Leeds, we look forward to welcoming you to this event.

Yours sincerely,

Prof Simon Duckett – NMR DG Chairperson, University of York

Dr Stephen Byard - NMR DG Secretary, Arcinova

Dr Tharin Blumenschein – British Biophysical Society

Dr Anastasia Zhuravleva – Local organizer, University of Leeds

Prof Alex Breeze – Local organizer, University of Leeds

Full conference details are accessible on the following web links:

<http://www.rsc.org/events/detail/37139/nmr-in-biophysics-and-molecular-biology>

<http://www.nmrdg.org.uk/>

Registration

Registration is now open and can be completed via the RSC website

<http://www.rsc.org/events/detail/37139/nmr-in-biophysics-and-molecular-biology>

or directly by using the link below:

https://events.rsc.org/rsc/frontend/reg/tSelectBookingMode.csp?pageID=535404&_ga=2.187378541.458711515.1544951926-1035153658.1526713032&_gac=1.36294548.1543875538.EAIaIQobChMInsibtNiE3wIV7pztCh2smgK1EAAYASAAEgI8SfD_BwE&eventID=1583&tempPersonID=678716

Registration includes access to all oral and poster presentations, access to vendor displays inter-session refreshments, evening buffet supper on 10th April and buffet lunch on 11th April. A conference pack will be provided on registration prior the first session. Accommodation is not included in the registration fees. However, there is a wide range of hotels and Bed + Breakfast houses close to the venue, to suit all budgets.

Due to the generous sponsorship and support provided for this event, we are able to offer exceptionally low registration rates for a two-day event of this caliber as listed below. Additional discounts are offered to RSC and British Biophysics Society members. Discount codes to be applied at the time of registration are: The discount codes are as follows:

Retired delegates: 19NMRRETIRE

British Biophysical Society member: 19NMRBSM

Registration fees

Member £60

Non-member £80

Student member £25

Student non-member £45

Key Dates:

Registration deadline: 25th March 2019

Poster abstract submission, (**no** option to make oral presentation): 18th March 2019

Poster submissions:

A Poster Abstract Submission Form is also accessible via the RSC website
<http://www.rsc.org/events/detail/37139/nmr-in-biophysics-and-molecular-biology>

Please return completed abstract submission form by email, as a Word document, to
stephen.byard@arcinova.uk, in accordance with deadlines:

*Poster abstract submission, **no** option to make oral presentation: 18th March 2019*

Generous prizes will be offered to best poster for established researcher, early career researcher and oral poster presenter.

Portrait poster boards (1.0 m wide by 2.0 m tall) will be provided for poster mounting, which should be performed during the registration period at the start of the first day of the meeting. All posters should be removed immediately at the end of the meeting.

A prize will be awarded for the best poster presentation, as sponsored by UCB:



A prize will be awarded for the best short oral presentation, as sponsored by Protein Data Bank in Europe:



Event sponsorship

The NMR Discussion Group and British Biophysical Society are extremely grateful to the following organisations for their generous support, making this event accessible to such a diverse range of NMR spectroscopists:

Platinum sponsors

AstraZeneca
Bruker UK
Elsevier, Progress in NMR Spectroscopy
UK Research and Innovation – BBSRC, EPSRC and MRC
Wellcome Foundation



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and Innovation



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and Innovation

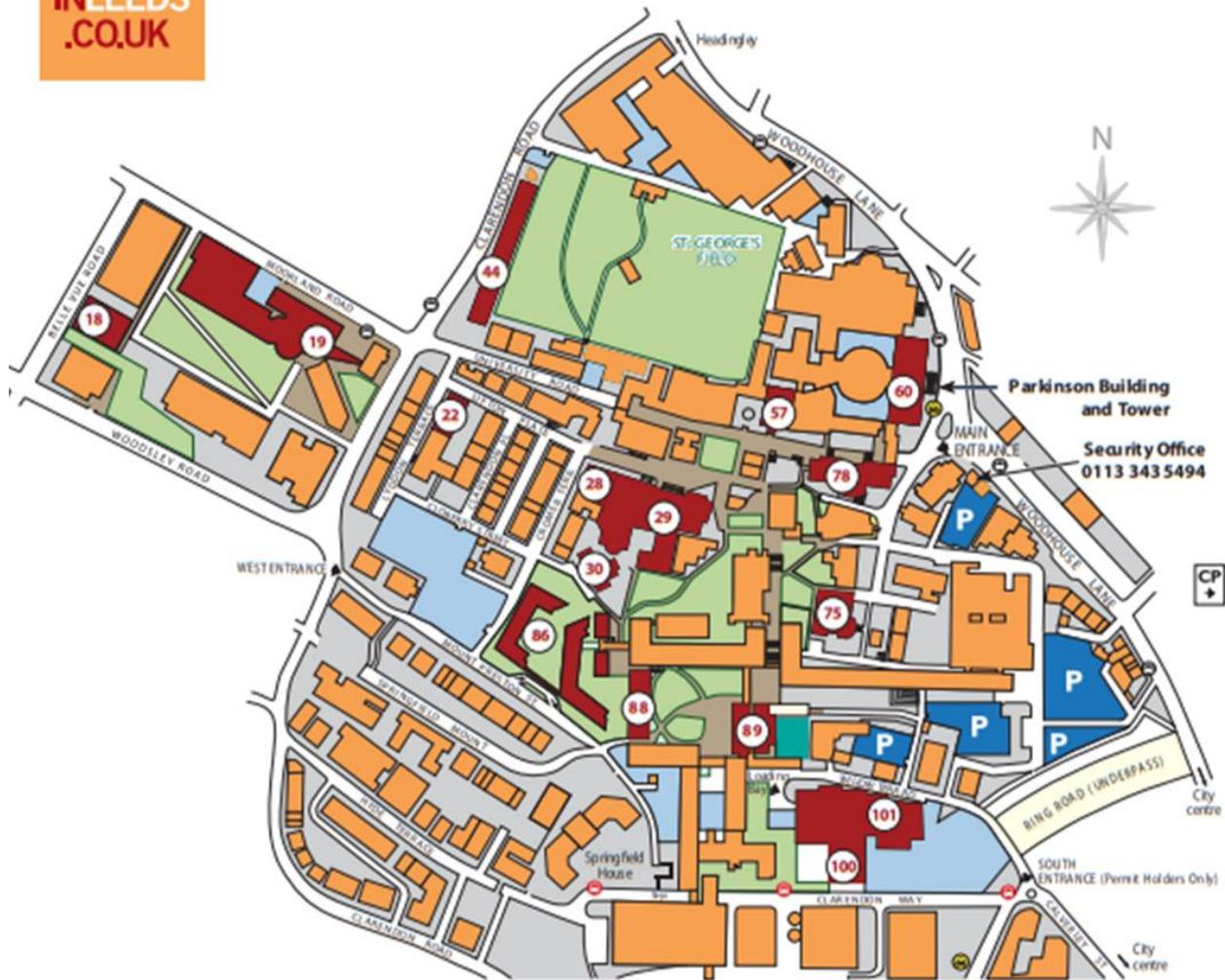
Gold Sponsors

Arcinova
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Goss Scientific Instruments
Protein DataBank Europe
Rototec
Royal Society of Chemistry
Silantes
UCB Celltech



Venue Map

MEET
IN LEEDS
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Campus Map

Key

- 18. Western Lecture Theatre
- 19. Leeds University Business School (LUBS)
- 22. Elerslie Hall
- 28. University House
- 29. Refectory
- 30. Lyddon Hall
- 44. Henry Price Residence
- 57. Great Hall
- 60. Parkinson Building
- 75. School of Music
- 78. Michael Sadler Building
- 86. Charles Morris Hall (Dobree House, Storm Jameson Court, Whetton House)
- 88. Staff Centre
- 89. Roger Stevens Building
- 100. Conference Auditorium
- 101. Sports & Exhibition Centre/The Edge

Car parks

- University visitors' car parks (limited access)
- Other university car parks
- Public multi-storey car park

Other useful information

- CityBus Stop
- Taxi Rank
- Pedestrian Only Area
- Lawns
- Bus Stop

NB. Building numbers correspond to the University's official maps which can be found on campus

Joint NMR Discussion Group – British Biophysical Society Spring Meeting

Wednesday 10th and Thursday 11th April 2019

Conference Auditorium 2, University of Leeds, Woodhouse Lane, Leeds, LS2 9JT

Wednesday 10th April 2019

Registration and bag drop at Conference Auditorium 2, from 10:00

Poster/vendor exhibition set-up: 10.00 – 13:00

13:25 – Conference welcome and introduction

Scientific session 1: 13.25 – 15.30

13:30 – Sheena Radford, *University of Leeds, UK*

Seeing amyloid and its assembly mechanisms

14:20 – Józef Lewandowski, *University of Warwick, UK*

Applications of fast magic angle spinning solid-state NMR to biomolecular complexes

14:55 – Jen Potts, *University of York, UK*

Repetitive but Interesting-Structural Analysis of Surface Proteins of Gram Positive Bacteria

Refreshments: 15.30 – 16.00

Scientific session 2, *dedicated to Progress in NMR Spectroscopy*: 16.00 – 17.45.

Chairperson: David Neuhaus, *MRC Laboratory of Molecular Biology*

16:00 – Michael Sattler, *Technische Universität München, Germany*

NMR and integrative structural biology to study conformational dynamics in biomolecular recognition

16:35 – Alvar Gossert, *ETH Zürich, Switzerland*

New NMR tools for drug discovery: from screening and validation to structure determination

17:10 – Anastasia Zhuraleva, *University of Leeds, UK*

Conformational and functional flexibility of Hsp70 molecular chaperones

Buffet/refreshments and poster session/vendor displays and Facility tours 17.45 – 20.30

Thursday 11th April 2019

Scientific session 3: 09.00 – 10.45

Chairperson: Dr Anastasia Zhravleva, University of Leeds

9:00 – Geerten Vuister, *University of Leicester, UK*

CcpNmr Analysis Version-3 as a platform for integrated NMR data analysis

9:35 – Christina Redfield, *University of Oxford, UK*

Interactions and conformational dynamics of the bacterial oxidoreductase DsbD

10:10 – Ulrich Gunther, *University of Birmingham, UK*

Using NMR to study metabolism in human cells

Coffee/Tea/Biscuits: 10.45 – 11.15

Scientific session 4: 11.15 – 12.55 (Inclusion of oral presentation of poster abstracts)

Chairperson: Dr Christina Redfield, University of Oxford

11:15 – Christina Redfield, *University of Oxford, UK*

Connect NMR UK

11:20 – Katherine Stott, *University of Cambridge, UK*

Higher order from high disorder: DNA condensation by linker histone tails

11:55 – 4 short presentations selected from poster abstracts

Buffet Lunch: 12:55 – 14.20, with vendor exhibits and poster sessions

Scientific session 5: 14.20 – 16.20

Chairperson: Prof Alex Breeze, University of Leeds

14:20 – Steve Matthews, *Imperial College, London, UK*

NMR probing of phosphatidic acid sensing by Apicomplexan parasites

14:55 – Gabi Heller, *University of Cambridge, UK*

Ensemble determination of disordered proteins from molecular dynamics and NMR

15:30 – Bob Griffin, *Massachusetts Institute of Technology, USA*

Atomic Resolution Structures of Amyloid Fibrils

Meeting close/concluding remarks/presentation of prizes/gifts of recognition:

16.20 – 16.30

Refreshments and departures: 16.30