



**Symposium to be held at the Royal Society**  
6-9 Carlton House Terrace, London, SW1Y 5AG, UK

**11<sup>th</sup> – 12<sup>th</sup> December 2008**

***New Chemistry of the Elements***

*Symposium in Honour of Professor the Lord Lewis of  
Newnham*

Speakers include:

**How-Ghee Ang**, EnRI, Singapore  
**Pierre Braunstein**, Strasbourg, France  
**Malcolm Chisholm**, Ohio State, USA  
**Robin Clark**, UCL, UK  
**Edwin Constable**, Basel Switzerland  
**Leroy Cronin**, Glasgow, UK  
**Jim Dye**, Michigan State, USA  
**Peter Edwards**, Oxford, UK  
**Lutz Gade**, Heidelberg, Germany  
**David Garner**, Nottingham, UK  
**Wojciech Grochala**, Warsaw, Poland  
**Roy Harrison**, Birmingham, UK  
**Hans-Jörg Himmel**, Heidelberg, Germany  
**Catherine Housecroft**, Basel, Switzerland  
**Brian Johnson**, Cambridge, UK  
**Nicholas Long**, Imperial College, UK  
**Robert Mulvey**, Strathclyde, UK  
**Luis Oro**, Zaragoza, Spain  
**Matthew Rossiensky**, Liverpool, UK  
**Martin Schröder**, Nottingham, UK  
**Arndt Simon**, Max-Planck Stuttgart, Germany  
**Jim Turner**, Nottingham, UK  
**Andrew Weller**, Oxford, UK  
**Richard Winpenny**, Manchester, UK  
**Dominic Wright**, Cambridge, UK

## *Symposium Details*

The symposium is free to attend but it would be very helpful if you could send an e-mail to Professor Edwards' PA, Linda Webb, e-mail: [chemtemp@chem.ox.ac.uk](mailto:chemtemp@chem.ox.ac.uk) informing us of your attendance and whether you will be attending on both days. Students are encouraged to attend. Further details may be obtained from Professors Peter Edwards ([peter.edwards@chem.ox.ac.uk](mailto:peter.edwards@chem.ox.ac.uk)), Malcolm Chisholm ([chisholm@chemistry.ohio-state.edu](mailto:chisholm@chemistry.ohio-state.edu)) and Paul Raithby ([p.r.raithby@bath.ac.uk](mailto:p.r.raithby@bath.ac.uk)). Teas and coffees will be available at the intervals. There are no formal lunch arrangements but a wide variety of restaurants and snack bars are available within easy walking distance of the Royal Society.

## *Symposium Dinner*

There will be a symposium dinner on the evening of Thursday, 11<sup>th</sup> December, at 19.45, at the Royal Society, 6-9 Carlton House Terrace.

Pre-booking is essential to attend this event and the cost of the dinner will be £75.00 per head. If you wish to attend the dinner please complete the form below and send it with a cheque for the appropriate amount, mad payable to the "University of Bath", to:

Professor Paul R Raithby  
Department of Chemistry  
University of Bath  
Bath BA2 7AY  
UK

**The deadline for pre-booking the dinner is Wednesday 3<sup>rd</sup> December.**

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### **Dinner in Honour of Lord Lewis**

19.30 on Thursday, 11<sup>th</sup> December, 2008

at the Royal Society, 6-9 Carlton House Terrace, London SW1Y 5AG

Please insert your name, address, telephone number and e-mail address:

Name:

Address:

Telephone:

e-mail address:

I, \_\_\_\_\_ (please print name) wish to attend the dinner at the Royal Society on the evening of 11<sup>th</sup> December and wish/do not wish to bring a guest, \_\_\_\_\_ (please print name of guest).

I/my guest have the following dietary requirements:

\_\_\_\_\_

I enclose a cheque for £ \_\_\_\_\_ (£75.00 per head) made payable to "The University of Bath".

Please send the form and cheque to:

Professor Paul R. Raithby  
Department of Chemistry  
University of Bath  
Bath BA2 7AY  
UK

**To arrive not later than Wednesday, 3<sup>rd</sup> December**

# *Programme*

**Thursday, 11<sup>th</sup> December**

9.00-9.30 *Registration*

9.30 Peter Edwards, Oxford

*Electron Transfer and Electronic Conduction through an Intervening Medium*

10.00 Jim Dye, Michigan State

*Alkali Metals are alive and well at 200*

10.30-11.00 *coffee*

11.00 Hans-Jörg Himmel, Heidelberg

*Dihydrogen addition and elimination reactions of dinuclear group 13 element compounds*

11.30 Roy Harrison, Birmingham

*Air pollution: past, present and future perspectives*

12.00 – 13.30 *lunch*

13.30 Edwin Constable, Basel

*Photonic devices*

14.00 Catherine Housecroft, Basel

*Metal complexes as ligands: macrocycles, polymers and networks*

14.30 Rab Mulvey, Strathclyde

*Synergic surprises from bimetallic molecules: low polarity metallation, inverse crowns and hot anion trapping*

15.00 Lutz Gade, Heidelberg

*New strategies in catalyst development based on modular chiral bis(pyridylimino)isoindolato (BPI) ligands*

15.30 – 15.50 *tea*

15.50 Luis Oro, Zaragoza

*Cooperation between iridium centres in organometallic and hydrogenation reactions*

16.20 Nick Long, Imperial

*Organometallic chemistry for biomedical imaging: the role of metal-scorpionates in positron emission tomography*

16.50 Robin Clark, UCL

*Inorganic pigments: from mixed valence species to anatase*

17.20 How-Ghee Ang, EnRI, Singapore

*EnRI and A New Generation of Energetic Materials*

17.50 – *close*

19.00 – *reception*

19.30 – *dinner*

**Friday, 12<sup>th</sup> December**

9.00 Jim Turner, Mike George & Martyn Poliakoff, Nottingham  
*How slow, how fast?*

9.30 Wojciech Grochala, Warsaw  
*Is there chemical life beyond argon? Theoretical prediction of small metastable neutral molecules which contain a chemically bound helium atom*

10.00 Martin Schröder, Nottingham  
*Metal Organic Framework Materials for Gas Storage*

*10.30 – 10.50 coffee*

10.50 Brian Johnson, Cambridge  
*From Clusters to Nano-catalysts*

11.20 Andrew Weller, Oxford  
*Putting vacant sites to work: low-coordinate rhodium phosphine organometallics*

11.50 Pierre Braunstein, Strasbourg  
*Recent structural and reactivity aspects of the metal-ligand interplay*

*12.20 – 13.30 lunch*

13.30 Richard Winpenny, Manchester  
*Linking Rings for Quantum Information Processing*

14.00 Lee Cronin, Glasgow  
*Synthesis of polyoxometalate clusters; from molecular building blocks to protein sized inorganic architectures*

14.30 Matthew Rosseinsky, Liverpool  
*Complex oxides by design – anion mobility and property coupling*

15.00 Arndt Simon, Stuttgart  
*A new d metal chemistry of the lanthanides*

*15.30 – 15.50 tea*

15.50 Dominic Wright, Cambridge  
*Isoelectronic relationships in main group radicals and carbene analogues. How far can we go?*

16.20 David Garner, Nottingham  
*Dithiolenes - no longer non-innocent*

16.50 Malcolm Chisholm, Ohio State  
*The influence of incorporating M-M quadruple bonds on opto-electronic properties of oligothiophenes*

*17.20 closing remarks*