

4th April 2012

Venue: Group Research & Development, British American Tobacco, Southampton

Registration by email to:

Peter_Branton@bat.com

Registration form at:

<http://www.britishcarbon.org>



BRITISH CARBON GROUP SPRING MEETING

REAL WORLD APPLICATIONS OF CARBON

The British Carbon Group

2nd ANNOUNCEMENT

'Real World Applications of Carbons' is a one day meeting that aims to bring together scientists from Industry and Academia working in the field of carbon science. Carbon exists in many forms and has a range of diverse applications from personal protection to energy storage.

This meeting is provided free-of-charge - there will be **NO** registration fee and travel bursaries from BCG may be available to students.

This meeting provides an excellent opportunity for cross fertilisation of ideas and knowledge from many fields with a strong interest in carbon science.

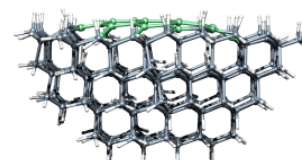
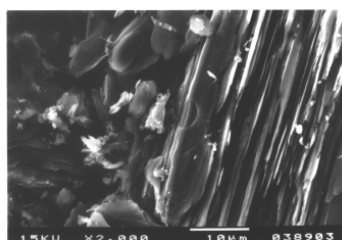
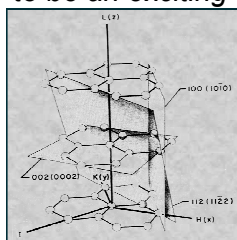
Lectures include contributions on the following topics:

- Adsorbent carbons
- Carbon ageing
- Carbons for energy storage
- Natural graphite
- Environmental impact and carbon emissions from internal combustion engines
- Industrial importance of water sorption by porous carbons
- The biological response to carbon modified cigarette smoke

The final agenda will be sent to participants on registration with travel details, etc. The website also provides comprehensive information on registration, travel and accommodation. The meeting will include a tour of British American Tobacco's Group Research & Development laboratories where you will see how activated carbon is used in the manufacture of filters and how its performance in smoke is measured.

For the latest details, please visit the British Carbon Group website at www.britishcarbon.co.uk.

We look forward to welcoming you to Southampton for what promises to be an exciting and informative event



The British Carbon Group (registered charity 207890) is affiliated to The Royal Society of Chemistry, The Institute of Physics and The Society of Chemical Industry.



RSC | Advancing the Chemical Sciences IOP Institute of Physics

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Important Information

Who Should Attend: The subject of this meeting is considered of high relevance to all those working with carbon materials including advanced materials manufacturing companies, university departments and students. The meeting is open to all including non-members without charge. All materials, lunch and refreshments is provided.

Timings: The meeting will commence 10:00 am Wednesday 4th April 2012 and end at 4:30pm.

Accommodation and Social Programme: A number of hotels are available in the Southampton area. We recommend the Grand Harbour De Vere Hotel (4*) which is located close to rail and coach stations and only 2 miles from British American Tobacco. A special rate will be available to participants — please let us know at the time of registration if you would like help with a hotel booking. The hotel will also be the location of the complimentary reception and pre-meeting dinner on Tuesday 3rd April. Travel will be arranged from the hotel to British American Tobacco on 4th April.

Tentative Programme:

- 09:30 Arrival and coffee
- 10:00 Welcome and introductions
- 10:15 Water sorption by porous carbons: principles and industrial importance, Prof K. Sing, Brunel University (Ubbelohde Memorial Lecture)
- 10:45 Long term ageing of activated carbons, Dr M. Williams, Cranfield University
- 11:15 Nanoporous synthetic carbon beads - production, properties and applications, Dr B.Bohringer, Bluecher GmbH
- 11:45 The role of carbon in energy storage, Dr E. Kendrick, Sharp
- 11:15 Environmental impact and carbon emissions from internal combustion engines, Dr S. Samuel, Oxford Brookes University
- 12:45 Lunch and networking
- 13:30 World natural graphite production: reshaping for a global high-tech revolution, Dr S. Moores, Industrial Minerals
- 14:00 The role of carbon in modifying the biological response to cigarette smoke , Dr G. Phillips, British American Tobacco
- 14:30 Tea and coffee
- 15:00 Tour of BAT Research Facilities (GR&D)
- 16:30 Depart

Sponsors: We gratefully acknowledge the hosting of the meeting by British American Tobacco



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Carbon has a broad repertoire of extraordinary physical, mechanical and chemical properties, but has seldom had a starring role in the science world. It has supported metal clusters which perform feats of catalysis, lined fusion reactors, provided electrodes in large scale steel furnaces, enabled lithium ion battery technology, moderated neutrons in fission reactors, provided exceptional 'cutting' tools, ... the list is endless.

In recent times this has changed. The single sheets of graphite could be produced curved by pentagons into cage molecules (fullerenes) or rolled into carbon nanotubes. In the last decade, finite single and double sheets of graphene have been produced. It turns out that the dynamics of charge carriers in mono-layer and bi-layer graphene have extraordinary properties, deriving largely from the fact that they have zero effective mass. The future of carbon materials is bright!

This event is organized by the British Carbon Group which is devoted to the advancement of carbon science (including amorphous carbons, graphites, diamond and fullerenes). The Group organizes one or two meetings per year. Once every decade or so the Group is responsible for the organization of the International Carbon Conference, the last of which was held in Aberdeen in 2006. It was the biggest ever such conference to be held in Europe. If you are interested in carbon, become a member today!

To contact the Group and for more information about the Group's activities, please see our website at

<http://www.britishcarbon.org>

Registration:

Email the local chairman at Peter_Branton@bat.com

Travel info:

Southampton has an international airport, and good rail links with London Waterloo only one hour away. A detailed map on how to find BAT is available on the BCG website.

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