



# Borate Phosphate

2017  
24–28 July

*The ninth international conference on  
Borate Glasses, Crystals and Melts*

*The second international conference on  
Phosphate Materials*



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[WWW.BORATE-PHOSPHATE.SGT.ORG](http://WWW.BORATE-PHOSPHATE.SGT.ORG)



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Glass in the Year of Eight; Cambridge 7-9 Sept 2015





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## 1st Announcement

The 9<sup>th</sup> International Conference on  
**BORATE GLASSES, CRYSTALS AND MELTS**  
July 24 - 26, 2017

The ninth conference follows the previous meetings held since 1977. The most recent meeting was held Pardubice, Czech Republic (2014). The Borate Conference is a forum for the discussion of current scientific research on borate materials (with a chemical composition that includes  $B_2O_3$ ,  $B_2S_3$ , and  $B_2Se_3$ ). The conference will be dedicated to Professor Steve Feller from Coe College, Iowa, USA to honour his achievements in understanding borate glass networks.

The 2<sup>nd</sup> International Conference on  
**PHOSPHATE MATERIALS**  
July 26 - 28, 2017

This conference follows the successful first conference held in Pardubice, Czech Republic (2014). It will cover all aspects of phosphate- and phosphate-containing glasses, including P-O, P-S, P-Se and P-O-N networks. Topics of interest will cover basic science, applications and technologies.



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## Conference Themes

This joint meeting, to be held at St Anne's college, Oxford, UK, is comprised of two conferences that will run sequentially. On the third day of the meeting there will be a combined day dedicated to borophosphate glasses followed by a conference dinner to mark the close the borates part of the meeting and the beginning of the phosphates conference. The five day meeting will cover a number of interlinking themes that will be of interest to all delegates. These include, but are not limited to, the following:

- **Energy** including nuclear waste storage and electrolytes, super ionic systems and ionic conductivity.
- **Healthcare** including bone repair, bioactivity, dental and medical applications, glass ceramics and crystallisation.
- **Optical and data storage materials** including optical properties, glass fibres, luminescence, laser hosts.
- **Property-structure relationships** including mixed network glasses, structural modelling and simulations, mechanical properties, thermal properties, glasses in extreme conditions, glass ceramics, phase separation and inhomogeneities, thermodynamics, corrosion.
- **Fundamentals of the glassy state** including glass structure, short and intermediate range order, the glass transition, the boson peak, glass relaxation, crystallisation.
- **Novel glasses, crystals and melts** including synthesis and characterisation.
- **Technology and Industry** including current applications and future developments.



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## Conference Site – St Anne's College, Oxford, UK.

**Oxford:** A city in Southern England renowned for its University and its history. The University is the oldest in the English speaking world and it is visited by leading academics from all over the world. Oxford is also famous for its historic buildings, of which over 1,500 are protected by law, which reflect every English architectural period since the Saxons. These include the iconic Radcliffe Camera built to house the Radcliffe Science Library. The architectural style of central Oxford has led to it being known as the “city of dreaming spires” – a term first used by poet Matthew Arnold. Along with its ancient University and historic buildings, the town is also home to many museums and shops and, in the summer, punting on the Rivers Thames/Isis and Cherwell is very popular. Oxford is easily accessible from all major UK airports, with regular bus and train services running from Gatwick and Heathrow.

**St Anne's College:** The conference will be hosted by St Anne's College. St Anne's is one of the constituent colleges of the University of Oxford, and is one of the largest colleges for both graduates and undergraduates. The college is 15 minutes walk from the centre of Oxford. As well as having outstanding conference facilities with audio visual equipment, air conditioning and sound proofing as standard. Wireless free internet access is available throughout the College. The College also has an elegant dining hall and a mix of single and twin en-suite rooms, as well as non en-suite.



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St Anne's College  
Oxford, UK

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#### **Conference Chairman**

**Dr Emma R. Barney**

University of Nottingham, Nottingham

Phone: +44 115 74 84674,

E-mail: emma.barney@nottingham.ac.uk

#### **Conference Secretary**

**Mrs Christine Brown**

Society of Glass Technology, Sheffield

Phone: +44 114 2634455,

E-mail: christine@sgt.org

#### **Local Organising Committee**

E. Barney (chair), A. Hannon, A. Wright, G. Mountjoy, I. Ahmed, J. Christie, J. Hanna, M. Marshall, N. Karpukhina, N. Barrow, P. Bingham, P. Salmon, D. Holland, R. Martin.

#### **Borate Conference Co-Chairman**

**Dr Alex C. Hannon**

ISIS, Rutherford Appleton Lab, Didcot, UK

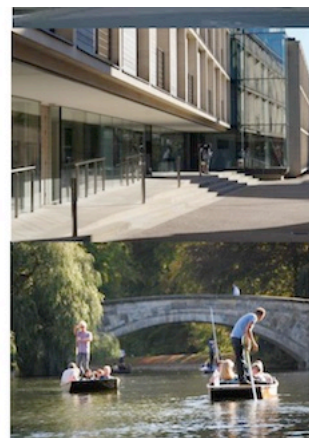
E-mail: alex.hannon@stfc.ac.uk

#### **Phosphate Conference Co-Chairman**

**Prof. Richard K. Brow**

Missouri S&T, Rolla, Missouri, USA

E-mail: brow@mst.edu



**The conference is organised by the Society of Glass Technology and the conference proceedings will be published in Physics and Chemistry of Glasses: European Journal of Glass Science and Technology Part B**



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## **Borate International Organizing Committee**

A. Hannon (UK; chair), A. Wright (UK), A. Clare (USA), A. Takada (Japan), L. Cormier (France), S. Kroeker (Canada), N. Vedishcheva (Russia), R. Brow (USA), J. Zwanziger (Canada), S. Feller (USA), H. Huppertz (Austria), N. Umesaki (Japan), R. Youngman (USA), E. Kamitsos (Greece), D. Möncke (Germany), E. Barney (UK), R. Brow (USA), R. Iordanova (Bulgaria), F. Rocca (Italy), A. Osipov (Russia).

## **Phosphate International Organizing Committee**

R. Brow (USA; chair), L. Koudelka (Czech Republic), S. Martin (USA), L. Montagne (France), U. Hoppe (Germany), D. Ehrt (Germany), I. Ahmed (UK), F. Munoz (Spain), H. Takebe (Japan), H. Yang (Taiwan), A. Ghosh (India), J. Garbarczyk (Poland), Y. Messaddeq (Canada), H. Eckert (Brazil), A. Hannon (UK).



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