

# Centre for Advanced Structural Ceramics

UK centre for structural ceramics research and teaching, which aims to be world-leading and to develop links and collaborations with industrial and academic groups world-wide



## CASC Newsletter

DECEMBER 2015

8<sup>TH</sup> NEWSLETTER

Fifth **CASC industry day** was held on 23<sup>rd</sup> January 2015 at Imperial College with attendees from industry and university (Morgan Advanced Materials, Rolls-Royce, ADML, CoorsTek, John Crane, Element Six, Kerneos, Queen Mary University, MoD).

The next CASC industry day will be on **22<sup>nd</sup> January 2016**. For more information about the benefits of membership of the CASC-Industry Consortium, please contact Eduardo Saiz (e.saiz@imperial.ac.uk) or Amutha Devaraj (adevaraj@imperial.ac.uk).



Sir Richard Brook Prize for 2014 best ceramics PhD thesis was won by **Dr James Thomas Bennett**, University of Leeds. This was for his research on *Development of bismuth ferrite derived piezoelectric ceramics for high temperature applications*, supervised by Professor Andrew Bells. It is sponsored by Morgan Advanced Materials and it covers a certificate, plaque and £1000 cheque.

Nominations are invited for the **Professor Sir Richard Brook Prize 2015 for the best ceramics PhD thesis in the UK**. Please find more information in the link below: [Best PhD prize-flyer](#). Nominations should be received by the CASC Director, Professor Eduardo Saiz (e.saiz@imperial.ac.uk) by 30 December 2015.

The 6<sup>th</sup> edition of the **Ceramic Summer School** was held on 16, 17 and 18 September 2015 at Imperial College London. The course was attended by a mix of people from Morgan Advanced Materials, Saint Gobain, the European Space Agency, a range of UK universities and an independent consultant.

The next edition will probably be held 14<sup>th</sup> - 16<sup>th</sup> September 2016, but the exact date and programme will be published early in 2016 after input from our industrial consortium.



## OUT AND ABOUT

**ACerS' PCSA:** Well done Claudio Ferraro for representing the CASC at an ACerS' President's Council of Students Advisors (PCSA) delegates during 2015-2016. He participated in the PCSA-2015 finance committee.

## International Symposium



The "Biobone Symposium", organized in the scope of the Biobone Initial Training Network (ITN), was held in Santiago de Compostela, Spain between the 13<sup>th</sup> and 15<sup>th</sup> of October 2015. The symposium was a great successful event which attracted number of international attendees. The highlight of the symposium was having 13 invited speakers who are pioneers at their field of research from Europe and overseas.

The BioBone Symposium addressed the processing, structural, surface and mechanical characterization of bioinert and bioactive ceramics. The symposium created a unique opportunity for young researchers to showcase their work

alongside some of the leaders in the field of biomaterials for hard tissue regeneration, allowing the in-depth discussion of current and future challenges.

## CONFERENCES ATTENDED

**CASC researchers have presented their work at a number of international conferences:**

- Material Science & Technology conference, Columbus, OH, USA, October 4-8, 2015
- BioBone Symposium , Santiago de Compostela, Spain, October 13-15, 2015
- CARBON 2015, Dresden, Germany, July 12-16, 2015
- EUROMAT, European Congress and Exhibition on Advanced Materials and Processes, Warsaw, Poland, September 20-25, 2015
- 14<sup>th</sup> Conference of the European Ceramic Society. Toledo, Spain, June 21-25, 2015
- XXIV International Materials Research Congress, Mexico, August 16-20, 2015

## VISITORS

- Prof. Michel W. Barsoum, Distinguished Professor, Department of Materials Science and Engineering, Drexel University visited the CASC during October – December, 2015. During his stay, he has giving 5 Leverhulme lecture series and a special lecture on pyramids.
- Dr. André R. Studart, ETH Zurich, Department of Materials, Zurich visited the CASC in October 2015
- Hyoyoung Lee, Professor, Department of Chemistry and Director of Creative Research Initiatives visited CASC in September
- Koji Kageyama of the Refractory Ceramics Division of Nippon Steel & Sumitomo Metal Corporation visited CASC in September
- Singapore delegates (Teo Jia Hui, Tan Hwee Nah Serena and Goh Joo Thiam) from DSO National Laboratories visited the CASC in November 2015

## CASC NEW APPOINTEES

- Eleonora De Elia has successfully completed her PhD and now joining as a post-doc to work with Eduardo Saiz.