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## In this issue:

- Publications
- Out and about
- Visitors to the CCL
- Industrial forum
- Talk to the CCL
- Chance to visit the House of Commons

The logo for the Ceramics and Composites Laboratory (CCL) at The University of Sheffield. It features the letters 'CCL' in a large, bold, black sans-serif font, centered between two horizontal yellow bars.

Ceramics and Composites Laboratory  
The University of Sheffield

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## Publications

Yang G, Mobus G, Hand RJ, "Cerium and boron chemistry in doped borosilicate glasses examined by EELS" MICRON 37 (5): 433-441 2006

Wu AY, Vilarinho PM, Srinivasan S, Kingon AI, Reaney IM, Woodward D, Ramos AR, Alves E "Microstructural studies of PZT thick films on Cu foils", ACTA MATERIALIA 54 (12): 3211-3220 2006

Bingham PA, Hand RJ, Scales CR, "Immobilisation of simulated plutonium-contaminated material in phosphate glass: an initial scoping study", Scientific Basis for Nuclear Waste Management XXIX, Mat. Res. Soc. Symp. Proc. 932 (2006) 345-352.

Sharp JH "Surely we know all about cement - don't we?" 48<sup>th</sup> Mellor Memorial Lecture, Advances in Applied Ceramics 2006 VOL 105 NO 4

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## Out and about

Denis Pasero attended the 23rd European Crystallography meeting in Leuven, Belgium and on aug. 8th at the Batteries and Fuel Cells mycosymposium he gave a presentation "Oxygen non-stoichiometry in some lithium ion batteries"

Iasmi Sterianou attended, the 15th International Symposium on the Applications of Ferroelectrics, (ISAF 2006), 30th July-2nd August, Sunset Beach, North Carolina, USA. She gave a talk entitled "High Temperature Bi(Me)O<sub>3</sub> - Based Piezoelectric Ceramics".

Peter Bailey attended the Knowledge Based Materials summer school in Sweden, which focused on composite and polyphase materials this year. The project is funded by the EU Marie Curie Actions under a programme promoting collaboration and mobility within Europe for researchers in science and engineering. This year's summer school and conference were highly successful, attracting participants from a very wide range of research areas which lead to some interesting discussion.

Tony West was an invited speaker at a workshop "From minerals to materials" held in San Pedro de Atacama, Chile, August 28-30. As part of the workshop, there was a visit to a salt mine in which salts are removed by dissolution and then evaporation/crystallisation. Salts extracted include KCl, K<sub>2</sub>SO<sub>4</sub>, MgCl<sub>2</sub> and Li<sub>2</sub>CO<sub>3</sub>/Li(OH). 28 tonnes pa of lithium salts are produced; this region is the world's largest supplier of lithium chemicals. The company refused to answer whether they have enough reserves to meet the expanding world market in lithium batteries!

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## Visitors to the CCL

A warm welcome to Kar Ban Tan and Chiw Chieh Khaw who are visiting the CCL for 6 months to work with Tony West. They both come from the Chemistry Department

of Universiti Putra Malaysia. Kar Ban will be working on BZN pyrochlores and Khaw will be working on BZT pyrochlores.

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### Industrial forum

**Thank you** to everyone who presented at the CCL Industrial Forum Meeting. Your excellent talks and posters helped to make the day a great success.

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### Talks to the CCL

Dr Stefanie Feih will be giving a talk in the department on tensile strength of glass fibres and composites at elevated temperatures and the model predictions. The talk will be in the Hadfield Room on the 27<sup>th</sup> September at 10.00am. I hope that those of you working on glass or composites will make every effort to attend.

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### Chance to visit the House of Commons

We have received details of this year's annual reception and competition at the House of Commons with a closing date of Friday, 17th November 2006. Further details may be obtained from the website [www.setforeurope.org](http://www.setforeurope.org) and at the Engineering 2006 page; alternatively, Carole has a copy.

Last year one of our PostDocs, Dr Neil McTaggart received a commendation award of £100 for his presentation "A permanent solution to Britain's radioactive waste problems". I hope that some of our younger colleagues will consider applying this year.

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Best Wishes

Helen Fletcher

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