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CCL

Ceramics and Composites Laboratory
The University of Sheffield

Visitors to the CCL

Members of Thales Underwater Systems visited the CCL on the 6th April. They spent time with Peter Bailey, Russell Hand, Alan Barnes and Simon Hayes discussing potential areas of interest. Thales Underwater Systems manufacture sonar systems and so are interested in our expertise in active materials, composites and coatings.

Mary Goetz, Director - Industrial Participation UK for Boeing - visited members of the CCL on the 20th April. Discussions covered various aspects of the Department of Engineering Materials and Professor F R Jones' CAMTEC programme.

Publications

Woodward DI, Wise PL, Lee WE, et al., "Space group symmetry of $(\text{Ca}_x\text{Sr}_{1-x})\text{TiO}_3$ determined using electron diffraction", *J. Phys.: Condens. Matter* 18 (8): 2401-2408, 2006

Adams TB, Sinclair DC, West AR, "Characterization of grain boundary impedances in fine- and coarse-grained $\text{CaCu}_3\text{Ti}_4\text{O}_{12}$ ceramics", *Phys. Rev. B* 73 (9): Art. No. 094124 2006

Torres SM, Lynsdale CJ, Swamy R and Sharp JH, "Microstructure of 5-year-old mortars containing limestone filler damaged by thaumasite" *Cem. Concr. Res.* 36 (2): 384-394 B 2006

Choudhury T, Jones FR, "The interaction of silanes with amorphous silicon oxide surfaces", *Int J. Adhes. Adhes.* 26 (1-2): 79-87 Sp. Iss. SI 2006

Energy meeting

Paul Bingham, Russell Hand, Frank Jones Derek Sinclair, and Tony West, attended a Sheffield University Engineering Faculty meeting on energy research. The meeting was organised by members of the CCL. Representatives from all the Engineering Departments gave short presentations on their energy related research. Areas of common interest were identified and hopefully new collaborations will develop.

New CCL member

Welcome to Ashu Pasha who has joined the CCL recently to study for a PhD with Ian Reaney. Ashu's PhD will be on the Raman spectroscopy of perovskites.

Out and about

Antonio Feteira spent 6 weeks at Complutense University, Madrid, Spain. While he was there he worked with Professor Gonzalez Calbet on HREM of hexagonal perovskites. This trip was funded by money Antonio was awarded from the FAME project.

Paul Bingham visited the PPG Glass Technology Centre in Pittsburgh, USA from the 18th-20th April. He gave an invited lecture entitled "Reformulation of commercial soda-lime-silica glasses for reduced environmental impact" and had a tour of PPG facilities. A number of discussions with technical and managerial staff followed, and it is hoped that these will lead to future collaborations with PPG.

Frank Jones and Fangming Zhao attended the conference on "Composites Testing and Model Identification 2006" from 10th- 12th April at Porto, Portugal. Frank gave an oral resentation titled "Photoelastic characterisation of the stress transfer at fibre-break in model composites", authors: FM Zhao and FR Jones.

Fangming presented a poster titled "Identifying the effect of shear residual stresses on stress transfer in single short fibrecomposites using photoelasticity", authors: FM Zhao, FR Jones.

Changes to EPSRC research proposals

Currently, the EPSRC asks you to justify the resources you are applying for as part of the project description in your case for support. From 23rd May 2006, they will require a separate one-page document justifying the requested resources.

This means that the proposal documentation will be made up of the following parts:

Case for support:

- Track record (up to 2 sides of A4)
- Project description (up to 6 sides of A4)

Other attachments:

- Justification of resources (up to 1 side of A4)
- Diagrammatic work plan (up to 1 side of A4)
- Any supporting documentation, for example, letters of support or CVs

The justification of resources should give peer reviewers enough information to understand why the resources you request are necessary for your proposed project. It should cover:

- All of the directly incurred elements of your proposal, including the effort and cost of all research assistants (even where they are named as a co-investigator).
- The effort, but not the cost, of the principal investigator and any co-investigators (excluding research assistants named as co-investigators).
- Items under the other directly-allocated fund heading except for departmental technical and administrative services.

The estates and indirect cost parts of the proposal do not need to be justified.

Please also note that from the 4th May, the diagrammatic work plan must be a separate attachment from the case for support.

Best Wishes

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