

Comings & Goings

There was a lot of activity last year attending conferences and this continues in 2012.

36th International Conference on Advanced Ceramics and Composites

David Hallam and Andrew Harris both attend the conference in Daytona Beach USA where they will be giving oral presentations. The conference showcases cutting edge research and product developments in advanced ceramics, fuel cells and ceramic coatings.

18th International Conference on Composite Materials

Four of our Research Engineers (Souhad Boughanem, Dan Graham, Jon Chard and David Fishpool) attended the conference in Korea and although faced with first conference nerves, made the Surrey team proud.

European Conference on Applications of Surface and Interface Analysis (ECASIA)

Hayley Brown and Chris White presented oral and poster presentations at this Cardiff conference to gain better understanding of surface analytical techniques.

2011 Nuclear Science Symposium and Medical Imaging Conference, Valencia

Steven Bell attended this conference in October and picked up some very useful contacts that could lead to an exciting collaboration.

Emulsion Polymerization Processes, San Sebastian Spain

Farai Carter was one of only 12 doctoral students selected to attend this course supported fully by a Marie Curie grant. The course provides a sound basis of the fundamental aspects of emulsion polymerization, a really good grounding for Farai who is researching the drying of water borne coatings.

A reminder to all REs who would like to attend a conference, please use the form on the MiNMaT website and submit it to the Centre once you have your supervisory team's approval.

ICCM, Korea 2011



Centre News

Tim Young attended his viva voce examination on Tuesday 29th November. Prior to the viva Tim hosted an open presentation on his research and we're very pleased to report a successful outcome.

Very well done Tim.

The West Surrey Materials Society presented the last lecture of 2011 on 6th December with Dr David McPhail of Imperial College London speaking to us about applications of SIMS in conservation science.

Well done to David Hallam, Andy Harris, Souhad Boughanem and Dan Graham who recently passed their two year confirmation vivas. Ravish Rajkumar will attend his two year confirmation examination in January 2012.

For more information please call 01483 683467 or email n.hartley@surrey.ac.uk

Industrial Doctorate Centre in Micro- and NanoMaterials and Technologies
University of Surrey, Guildford, Surrey GU2 7XH, UK

Industrial Doctorate Centre MiNMaT Newsletter

January 2012 | Issue 4

Inside:

[New Research Engineers](#)

[EngD Conference 2011](#)

[ESPRC Mid Point Review](#)

[Comings & Goings](#)

Welcome to issue 4 of the newsletter.

Noelle Hartley, Manager IDC in MiNMaT

Welcome to issue 4 of the centre newsletter. Our new entrants joined us at the end of September and we welcome them all to our IDC. The autumn semester has begun and we have already hosted our annual EngD Conference, conducted 4 confirmation examinations with another planned in January 2012, and a final viva voce examination took place at

the end of November for one of our fourth years. 2012 brings an early recruitment activity as we are already planning our intake for the 2012/13 academic session.

Julie and I would like to take this opportunity to wish all our readers a very happy and healthy New Year.



New Research Engineers

Welcome aboard to our 10 new Research Engineers who started their research with our new and existing sponsor companies in October 2011...



Alex Rainer

"Performance assessment of trunk mains" with Thames Water



Martyn Staff

"Materials properties of scintillating materials for use in neutron and X-ray radiation detectors" with Applied Scintillation Technologies



Tom Williams

"The influence of microstructure and phases of armour ceramics on ballistic performance" with Dstl



Vadim Yermakou

"Transport and dynamics in nanopores of concrete" with Lafarge



Sion Richards

"Materials characterisation and development of Cs1:Tl scintillators for medical and non destructive testing applications" with Applied Scintillation Technologies



Emily Smith

"Determining the critical fluid properties for the selection and optimisation of liquid systems used to evaluate filter integrity" with Pall Europe



Maria Cann

"Laser ablation processes for micro-electronic device manufacture" with M-Solv



Sam Erland

"Investigating manufacturing issues in large scale composite components" with GKN



Nick Brown

"Machining and mechanical fastening of composites" with TWI

Guest Research Engineer Spot, Hayley Brown

Sponsor: Plasma Quest – "The properties and performance of moisture/oxygen barrier layers deposited by remote plasma sputtering"



After graduating from the University of Southampton with a 4 year MEng in Electronics with Nanotechnology, I was employed on a 30 month Knowledge Transfer Partnership (KTP) with the University of Surrey and Plasma Quest Ltd, an SME providing thin film materials and process solutions. The KTP was setup to develop material characterisation procedures using the sophisticated equipment at the University of Surrey, allowing Plasma Quest to improve its deposition processes and develop new products.

The Engineering Doctorate scheme was a great opportunity to continue this close relationship and further my passion for research. I have thoroughly enjoyed my first

8 months of the EngD programme, however it can sometimes be challenging to keep all 3 parties (the university, the company and myself) happy but I am glad I have a strong and supportive team behind me.

The EngD programme has allowed me to make close links with many universities (including Oxford and Cambridge) and to have an active role in many IoP and KTN groups. I really value the close friendships with my fellow EngDs, and although we are scattered all over the UK we are always in contact.

EngD Conference 2011

On Thursday 29th September we held our annual EngD Conference at the Holiday Inn here in Guildford. Feedback from the day was very positive indeed and it was commented by many that the programme has now really come of age. Our thanks to all who took part. Congratulations to our two prize winners who received the Littauer Prize for Best Poster, Vimal Gopee and Best Oral Presentation, Dan Graham.

Top: Farai Carter – Poster Presentation
Middle: The prize winners...
Bottom: David Hallam – Oral Presentation



Happy New Year to all in the IDC

We hope you all had a wonderful Christmas and New Year.

Thanks to all those who attended the Christmas party on the 13th December, complete with a visit from Father Christmas and his elf!

EPSRC mid point review – a fantastic outcome

We received our feedback from the EPSRC in mid August. We had three points of feedback, all of them commending our IDC with no development points added. We've had further confirmation that our IDC is seen "as one of the most positively viewed IDCs" and "one of the Centres that is thought of most highly".

We're very proud of the feedback and we thank everyone again who took part in the paper submission to the EPSRC.

University Programme Review

Every five years our programme is reviewed by the University and that review took place on Tuesday 13th December 2011. The review involved some of the Research Engineers who were interviewed by a University panel. We had the Christmas party on the same day, so those who were invited were able to stay on in the evening

for the quiz. We had informal feedback on the day of the review that included four points of commendation.

We'd like to thank everyone who assisted with the review process.