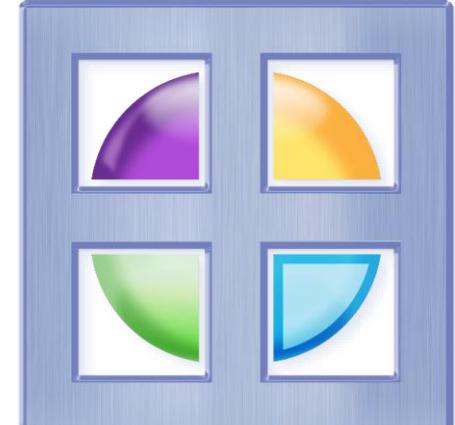


# Centre for Nuclear Engineering Newsletter

Dec  
2013

Welcome to the CNE newsletter, there have been many exciting developments in the CNE over the last few months and we thought that this would be the best way to let everyone know about them.



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## News Updates

by Emma J. Warriss and Edoardo Giorgi

### Halden World Tour visits the CNE

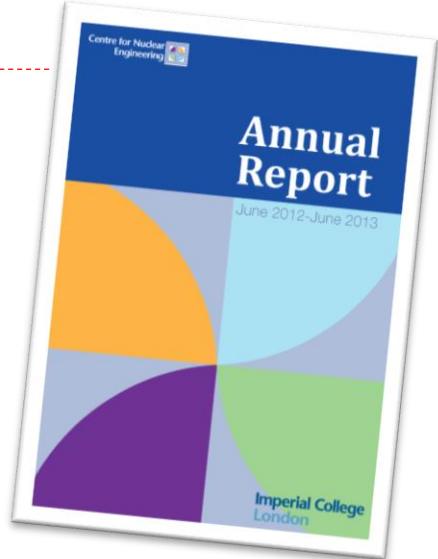
NNL visited the CNE on 30<sup>th</sup> October as part of their Halden world tour. Mike Bluck welcomed the visitors and introduced the CNE. Talks were given by Megan Cooper, DECC, 'UK Government perspective on nuclear R&D, and David Farrant, NNL, 'NNL role in nuclear industry R&D strategy'. Talks were also given by Glyn Rossiter, NNL, John Shea, EDF Energy, and Ted Darby, Rolls-Royce on the benefits of Halden membership to existing UK parties. Talks were followed in the afternoon by split discussion groups 'Fuels and Materials programme discussions and MTO programme discussions. In attendance were NNL, EDF Energy, Rolls-Royce, DECC, Imperial College, Bristol University, Open University and Halden. Will Dalrymple (Editor, Nuclear Engineering International Magazine), also attended and has with David Farrant written an article for the December issue about this topic.

published in the September Issue, pages 52-59, of the Nuclear Future journal titled 'Experimental testing and numerical simulation of reheat cracking'.

### Annual Report and the Nuclear Advisory Committee

The first meeting of the CNE Nuclear Advisory Committee was held on 9<sup>th</sup> and 10<sup>th</sup> July 2013 with a wide representation from the nuclear industry including from AWE, EDF, AMEC, Westinghouse, NDA, Magnox, Costain and Sellafield. The CNE Annual Report which can be found and downloaded at:

<http://www3.imperial.ac.uk/nuclearengineering>



was well received, and covers the period July 2012-July 2013 containing details on everyone involved with the CNE, internal and external, as well as all CNE funding and projects.

### 2<sup>nd</sup> Annual UKNAM held in Birmingham

The 2<sup>nd</sup> UK Nuclear Academics meeting was held on 17<sup>th</sup> and 18<sup>th</sup> September at Birmingham University. The meeting is



### Winner at the UNTF 2013 has article published

Priyesh Kapadia, EngD, Mechanical Engineering won the prize for best presentation at the UNTF 2013 event held in April at Imperial College. As part of his prize he had an article

partly funded by the EPSRC Nuclear Champion grant. Over 80 academics from across the UK attended. Presentations were mixed with breakout groups during the two days which it is hoped will lead to new collaborations.

### Ben Britton Teaching Champion for the CNE

Dr Ben Britton has taken up the baton of Nuclear Teaching Champion for the CNE. Ben will oversee the three MEng nuclear courses and the MSc in Nuclear Engineering (of which he is now Director, replacing Dr Mark Wenman, the founder of the course). A CNE Teaching Committee, with representatives from all courses now meets every three months.

### CNE Away-evening

The CNE arranged a wine and cheese evening at SIPP (a wine sampling shop/venue in Knightsbridge) on 20<sup>th</sup> November for the CNE Academics, RA's, PhD's and MSc students. It was kindly funded by consultancy work undertaken by Dr Norman Waterman.

### EDF Annual Lecture

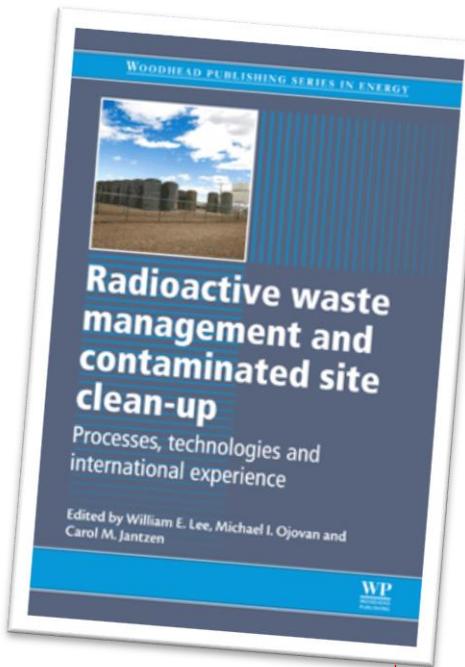
The 4<sup>th</sup> Annual EDF lecture will take place on 14<sup>th</sup> January 2014 at 6pm. This year the lecture will be given by Humphrey Cadoux-Hudson, Managing Director – New Nuclear Build. More details will be distributed in the near future.

### Student Placements

NNL have recently sent us details of their summer placement scheme which

has been sent to all CNE academics. These placements are for MEng, MSc and PhD's. Please contact Emma Warriss if you would like more details.

If you have any contacts that would be willing to offer our nuclear UG's and MSc's students industry placements please could you contact Emma Warriss or Ben Britton with the details.



### Publications

Prof Bill Lee has recently had his book 'Radioactive Waste Management and Contaminated Site Clean-up' published. It was co-edited with Michael Ojovan and Carol Jantzen and is available at:

<http://www.woodheadpublishing.com/en/book.aspx?bookID=2557>

Bill Lee, Robin Grimes, Samuel Murphy and Matt Gilbert co-authored an invited review for The Journal of the

American Ceramic Society, "Opportunities for Advanced Ceramics and Composites in the Nuclear Sector", J.Am Cera Soc 96 [7] 2005-30 (2013).

### Visitors to the CNE

The CNE has hosted several visitors from Japan over the last couple of months. Dr Masao Chaki and Dr Yoichi Wada from Hitachi met with Prof Susan Parry, Prof Kym Jarvis, Dr Hong Wong, Dr Katerina Tsiamposi and Prof Bill Lee on their most recent visit to Imperial. Dr Yuichi Yamane of JAEA visited on 11<sup>th</sup> November and met with Prof Chris Pain and his group. The CNE hosted a student Kota Kawai, Tokyo Institute of Technology, along with Prof Katsumi Yoshida to discuss research collaborations in glass and ceramics over the summer.

CANDU Energy and GE Hitachi Canada visited and presented to the CNE on 19<sup>th</sup> November. They gave a presentation and Q&A on 'The Role of CANDU Technology in the UK.'

### Jules Horowitz Reactor

A new state of the art Materials Test research reactor is under construction at Cadarache in France in a project managed by the CEA. Trevor Chambers from the IC Reactor Centre at Silwood Park, attended the first JH Reactor steering group meeting on November 13<sup>th</sup>, co-ordinated by NNL, which is initiating the UK's interactions with the JHR.

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