



AUSTRALASIAN CORROSION ASSOCIATION INC

## VIC BRANCH NOVEMBER TECHNICAL MEETING

### **Topic**    **Localized Corrosion Under Droplets and Thin Electrolyte Layers**

**Speaker:**    **Prof Gerald S. Frankel, Ohio State University**

Gerald S. Frankel is the DNV Chair and Professor of Materials Science and Engineering at the Ohio State University (OSU) and is also Director of the Fontana Corrosion Center. Prof Frankel has more than 200 publications and his primary research interests are in the passivation and localized corrosion of metals and alloys, corrosion inhibition, and protective coatings. He is past chairman of the Corrosion Division of The Electrochemical Society, past chairman of the Research Committee of NACE, and a member of the editorial board of the journals Corrosion, Materials and Corrosion, and Corrosion Reviews. He is a fellow of NACE International, The Electrochemical Society, and ASM International and has received the Alexander von Humboldt Foundation Research Award for Senior US Scientists, the H.H. Uhlig Educators Award from NACE, the 2007 TP Hoar Prize from the UK Institute of Corrosion, and the Harrison Faculty Award and Lumley Research Award from the OSU College of Engineering.

**Venue:**        Geebung Polo Club,  
85 Auburn Road  
Hawthorn.

**Date/Time:**    Thursday 19 November, 6.00 for 6.30 pm

**Bookings:**     John Tanti (0419 516 749).

**Members should note that the Geebung Polo Club provides excellent pub meals for post meeting socialization.**



## Meeting Report: Brian Cherry Award Forum

The inaugural Brian Cherry Award Forum was successfully completed at Monash University. The Forum, which will be held annually, provides the opportunity for final year and post-graduate students of corrosion science and engineering courses at universities in Victoria to present their research work to ACA members and to showcase their talents with a 20 minutes presentation.

More than 40 members and students attended to hear four very good presentations on current research work. The contestants were

Mr. Abhishek Saxena, a PhD student from Monash University Department of Chemical Engineering, who spoke on **"The Use of Silane Coatings for the Corrosion Protection of Magnesium Alloy AZ91D"**.

Mr. Samson Sim, a final year student in chemical engineering from RMIT University, who described **"Studies on the Corrosion Behaviour of a Selection of MEVVA Ion Implanted Stainless Steels"**.

Mr. Arun Kumara, who is undertaking a PhD at Monash University ARC Centre of excellence for Design in Light Metals, who discussed **"Practical Aspects of Open Circuit Potential and Surface Potential Measurements for Aluminium Alloy AA2024-T3"**.

Mr Rajeev Gupta, another PhD student from Monash University who spoke on the **"Corrosion Behaviour of Nanocrystalline versus Microcrystalline Fe-Cr alloys"**.

The judges engaged for the evening were Professor Cherry, Dr. Graham Sussex and Dr. Bruce Hinton, with Peter Dove keeping time. The contestants were assessed on elements of presentation including structure of the talk, use of presentation materials, timing and confidence. The technical content was also assessed with particular attention paid to the reason for the research, scientific method, analysis of data, level of technical innovation and conclusions. The verdict among the judges was unanimous with Mr. Rajeev Gupta declared the winner, Arun Kumara in second place and Mr. Samson Sim in third place, followed by Mr Abhishek Saxena. Professor Cherry congratulated all speakers on their fine efforts and presented the first prize of \$1000 and engraved trophy and second prize of \$500, with certificates to all participants. He remarked on the high quality of all presentations and that the total results for each speaker were very close.



(LtoR) Abhishek Saxena, Prof. Brian Cherry, Dr. Chris Weale, Samson Sim, Rajeev Gupta, Dr. Graham Sussex, Arun Kumara, and Dr. Bruce Hinton



Mr Rajeev Gupta receiving his Trophy from Prof. Cherry

A special highlight following the awards was a presentation of ACA Life Membership Badge to Professor Cherry.



## Forth Coming Meetings of Interest to Members

**Topic:** **In situ studies of corrosion with synchrotron x-rays,**

**Time:** Thursday, 12 November at 16:00,

**Venue:** Swinburne University of Technology, Hawthorn Campus.  
Room EN101 (Engineering building).

**Speaker:** Dr Alison Davenport, University of Birmingham, UK.

Dr Alison Davenport is Reader in Corrosion Science at the School of Metallurgy and Materials, University of Birmingham, UK. She obtained a BA and PhD in Metallurgy and Materials at the University of Cambridge, and then went to Brookhaven National Laboratory, USA, where she used synchrotron radiation techniques to study passive films in situ. After a brief spell at the University of Manchester, she moved to Birmingham, where she pursues research in two main areas: the effect of microstructure on localised corrosion, with particular interest in aluminium alloys (including friction stir welding of aerospace and marine alloys), and synchrotron x-ray methods for the study of localised corrosion, including imaging (fast radiography and tomography), spectroscopy and diffraction, investigating stainless steel, aluminium and magnesium.

### **Victoria Branch ACA: Christmas Function**

This year The VIC Branch will be holding its December meeting at the Belletzza Italian Restaurant (1413 Malvern Rd, Malvern) on Wednesday 9<sup>th</sup> December. Further details will be advised in the next Bulletin

### **Materials Australia: Victorian Branch Technical Societies end of year Dinner**

Accompanying this Bulletin is an invitation from Materials Australia to the Technical Societies end of year Dinner. ACA Members are cordially invited.