

The Lightweighting Lowdown

Automotive Seminar

As the automotive industry focuses on lighter, more fuel efficient and environmentally friendly automobiles there is a real need for the research and development community to understand the potentials and pitfalls of lightweight materials. This seminar will cover aspects of novel composites and lightweight metals with respect to manufacturing techniques, design freedom, properties and crash behaviour. We will also look at the use of modelling to reduce component development time and life cycle assessment in context.

This seminar will be of interest to automotive engineers and designers who need to keep up-to-date with materials and manufacturing technologies that are in development now.

Date: Thursday 17 February, 2011
Time: 8:30am - 3:00pm
Venue: John Connell Auditorium
Address: Engineers Australia
Ground Floor
Engineering House
21 Bedford Street
North Melbourne
RSVP: Friday 11 February, 2011

PROGRAM

| | |
|--------------|---|
| 8:30 | Registration Opens |
| 9:00 | Dr Gary White , AutoCRC - Welcome |
| 9:10 | Prof. Chun Wang , RMIT |
| | Low-cost Composite Technology for Automotive Vehicles |
| 9:30 | Presenter TBA |
| | Composite Manufacturing |
| 9:50 | Dr. Bernard Rolfe, Deakin University |
| | AutoCRC—Light Weight Modular Vehicle Platform—Low Cost-Light Weight Body Structure |
| 10:10 | Dr. Tim de Souza, Deakin University |
| | AutoCRC—Light Weight Modular Vehicle Platform—Design Challenges and Solutions |
| 10:30 | Dr. Michelle Dunn, Swinburne University |
| | AutoCRC—Light Weight Modular Vehicle Platform-Manufacturing and Assembly Constraints |
| 10:50 | Morning Tea |
| 11:20 | Mr. Sam Tartaglia, CSIRO |
| | Advanced Light Metal Application Developed at the CSIRO |
| 11:40 | Dr. Mark Easton, Monash University |
| | Light Weight Cast Structures |
| 12:00 | Dr. Matthew Dingle, Carbon Revolutions |
| | Environmental Impact of Light Weight Carbon Fibre Wheels |
| 12:20 | Presenter TBA |
| | Life Cycle Analysis of Manufactured Products |
| 12:40 | Lunch |
| 1:40 | Mr. Klaus Fiedler, Deakin University |
| | Automotive Parametric Geometry Modelling and Optimisation |
| 2:00 | Mr. Martin Vcelka, Swinburne University |
| | Mechanical Response of Sandwich Panels: Deformation and Energy Absorption |
| 2:20 | Ms. Mahsa Esfahani, Swinburne University |
| | Surface Engineering of Hybrid Joints for Sub-Assembly |
| 2:40 | Mr. Chris Stokes-Griffiths, Australian National University |
| | Modelling Automated Composite Placement for Rapid Manufacturing |
| 3:00 | Seminar Closes |

REGISTRATION FORM

Lightweighting Lowdown Automotive Seminar, VIC

registration form must be accompanied by payment

Full Registration \$95 Student Registrations \$70

Participant Details

Name _____ Member No _____

Company _____

Address _____

Postcode _____

Phone _____

Email _____

Dietary Requirements _____

Tax Invoice

abn 95 004 248 604

Payment Details

Please find enclosed my cheque/money order payable to SAE-A

Please charge my credit card for the amount of \$ _____ Visa / Mastercard / Amex

Visa & Mastercard surcharge 2% Amex surcharge 3%

Cardholder _____

Card Number _____

Expiry Date _____

Signature _____

Cancellation: there will be no refunds given, however a substitute attendee may be nominated.

Upon receipt of this registration form, you will be contacted with confirmation of your registration and a tax invoice will be receipted for your payment

Please forward this completed form to SAE-A

Email: rose@sae-a.com.au or

Post to Suite B, Level 2 - 70 Dorcas Street, Southbank VIC 3006

Phone (03) 9696-5190 FAX (03) 9696-5865