Who should attend?
These seminars are an excellent overall review of injection moulding technology. Scientific moulding is designed to give a better understanding of the injection moulding process. Scientific moulding is not about transducers and signal processors. It requires a full understanding of the moulding process from beginning to end. Injection mould maintenance and troubleshooting moulded defects is designed to give a better understanding of the injection moulding process and the factors that contribute to defective parts. It will further show how to eliminate or minimise these factors.
The seminar is recommended for set-up technicians, troubleshooting technicians, process engineers, maintenance technicians, supervisors, quality control technicians, tool and die personnel.

General information
Registration
The number of participants is strictly limited and it is therefore recommended that you register as early as possible. An administrative fee of AUD$50 will be charged for cancellations received one week before the course starts. After this date there will be no refunding of registration fees but full credit can be given for another person from the same company to attend. Substitutions may be made at any time but advance notice would be appreciated. RMIT Rheology and Materials Processing Centre will not be responsible for any costs incurred by the attendee in the unlikely event of the seminar being cancelled.

Accommodation
A special rate has been negotiated with the Rydges Carlton Hotel: AUD$178 per room per night for a queen room. Buffet breakfast is also available for an additional AUD$22. Availability is on a first-come-first-serve basis. Please make your booking directly with the hotel by calling reservations on +61 3 9347 7811 or by faxing on +61 3 9347 8225. To obtain the special rates please indicate your participation in the RMIT seminar and quote the special rate.

Sponsored by RMIT University, Rheology and Materials Processing Centre and the Society of Plastics Engineers

30 August 2010
Scientific moulding

31 August 2010
Injection mould maintenance and troubleshooting moulded defects

Disclaimer
Every effort has been made to ensure the information contained in this publication is accurate and current at the date of printing. For the most up-to-date information, please refer to the RMIT University web site. Prepared July 2010.
RMIT University Provider Code: 00122A.
Scientific moulding
Monday 30 August 2010
Seminar timetable
8 am — Registration
9 am — Welcome and start
10.30 am — Morning tea
12.30 pm — Lunch
3.30 pm — Afternoon tea
Program outline
» Easy plastics chemistry
» Defining and understanding quality
» Robust machine
» The pre-tryout
» Understanding temperature
» The preliminary cycle
» Determining gate freeze-off time
» Determining the cooling time
» When to eject
» Testing the cavity balance
» Minimising the clamp pressure
» Easily calculating Cp and CpK
» Submitting the samples
» Mould maintenance procedures
» Mould storage
» The universal set-up sheet
» Mould installation
Anticipated outcome
When using the techniques learned the normal results are:
» A more professional workforce focused on productivity and profit
» Faster troubleshooting
» Higher yields and cycle time improvements
» Better understanding of how to get the most productivity from the injection moulding process.

Injection mould maintenance and troubleshooting moulded defects
Tuesday 31 August 2010
Seminar timetable
8 am — Registration
9 am — Welcome and start
10.30 am — Morning tea
12.30 pm — Lunch
3.30 pm — Afternoon tea
Program outline
» Routine maintenance procedures
» Tooling specifications
» Mould classification
» Acceptance criteria for cosmetic, functional and dimensional
» Procedures for assembly and disassembly of a mould
» Procedures for welding on a mould
» Heat related defects
» Pressure related defects
» Time related defects
» “Different machine” related defects
» Speed related defects
» Temperature related defects
» Environmental related defects
» Set-up related defects
Anticipated outcome
When using the techniques learned the normal results are:
» A more professional workforce focused on productivity and profit
» Faster troubleshooting
» Higher yields and cycle time improvements
» Better understanding of how to get the most productivity from the injection moulding process.

Registration form—Injection moulding
Monday 30 and Tuesday 31 August 2010
(Please photocopy for additional registrations)
Name: ______________________________________________________
Position: ____________________________________________________
Company name: _____________________________________________
Mailing address: ______________________________________________
Tel. _________________________________________________________
Email: ______________________________________________________
Fees (Please tick appropriate box)
☐ Scientific moulding—AUD$450 + GST
☐ Injection mould maintenance and troubleshooting moulded defects—AUD$450 + GST
☐ Both days—AUD$850 + GST
This includes registration, lecture notes, arrival tea/coffee, morning tea, afternoon tea and lunch.
Discount (Only one discount per registration)
☐ I am a SPE member—AUD$50 per day discount
☐ Company registrations of two (2) or more people—AUD$50 per person per day discount
Method of payment
Note: Registration after Monday 23 August 2010 will incur a late fee of AUD$50
☐ Cheque (payable to Rheology and Materials Processing Centre)
Mail cheques and registration form to:
Rheology and Materials Processing Centre
RMIT University
GPO Box 2476
Melbourne VIC 3001
☐ Credit card (Visa or Mastercard)—Tel. +61 3 9925 3653
Receipt number: ________________________________
☐ Please email a copy of my receipt
☐ Please fax a copy of my receipt
Prepaid credit card registration
Please fax the completed form including your receipt number to 
fax: +61 3 9925 2268
All fees are to be paid in advance—Payment must be in Australian dollars drawn on an Australian bank.