

**“From Barking Dogs to Magic Sand - putting Chemical Toys to Work”  
The 2011 RACI Hartung Youth Lecture**

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**Senior Lecturer in Applied Chemistry, RMIT University**



There are many ‘chemical’ toys and reactions which have been used in demonstrations that display unusual effects. These are fun to try but, in many cases, also demonstrate properties of new or unusual materials. Fluids that are magnetic or change from liquids to gels, non-Newtonian materials, super-absorbent polymers, shape-specific alloys and chemiluminescent compounds are all examples of these materials. They not only have fun properties but also have been found to have important applications. These range from disposable nappies to waterproof raincoats to detecting bloodstains at crime scenes. In this show we will look at some of these toys – not just their fun properties but how they work.

**GIPPSLAND**

Monash University, Gippsland Campus.  
Friday 12 August, 11:00 – 12:00

**BOOKINGS ARE ESSENTIAL  
CLOSING DATE: AUGUST 1**

**WODONGA**

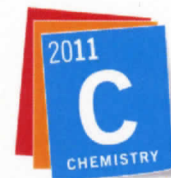
La Trobe University, Albury-Wodonga campus  
Wednesday 17 August, 10.30 – 11.30, and 1.00 – 2.00

**MELBOURNE**

RMIT University, City campus  
Friday 19 August, 11:00 – 12:00

**WARRNAMBOOL**

Deakin University, Warrnambool campus  
Friday 26 August, 11.00 – 12.00



**International Year of  
CHEMISTRY  
2011**

**BOOKING REQUEST:**

I wish to book places for \_\_\_\_\_ students and \_\_\_\_\_ teachers for the Lecture at \_\_\_\_\_  
on (date) \_\_\_\_\_ at (time) \_\_\_\_\_. Students are Year 10, 11, 12 level (circle)

A **free BBQ lunch** will be supplied at 11.45pm (morning lecture) or 12.15pm (afternoon lecture). Will your students be staying for the BBQ lunch? Yes/ No (*Please circle as appropriate*)

**Campus tours** will be offered at 12.30pm (morning lecture) or 11.45am (afternoon lecture). Would your students like to participate in tours of the campus? Yes/No (*Please circle as appropriate*)

Booking Teacher: \_\_\_\_\_

School: \_\_\_\_\_

Postal Address: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax \_\_\_\_\_

Email \_\_\_\_\_

This excursion has been approved by school administration \_\_\_\_\_

(signature of science coordinator/deputy principal)

For Gippsland bookings, go to [www.gippsland.monash.edu.au/programs/gap/hyl2011.html](http://www.gippsland.monash.edu.au/programs/gap/hyl2011.html)

For RMIT, [www.rmit.edu.au/scienceweek/hartung](http://www.rmit.edu.au/scienceweek/hartung)

Wodonga, email to Rachel Gorman: [r.gorman@latrobe.edu.au](mailto:r.gorman@latrobe.edu.au) or fax to (02) 6024 9888

Warrnambool, email to Joe Logan: [j.logan@deakin.edu.au](mailto:j.logan@deakin.edu.au)

Full details and a confirmation letter will be sent once the booking is processed.

**ENQUIRIES: contact Mick Moylan, [mmoylan@unimelb.edu.au](mailto:mmoylan@unimelb.edu.au)**



**DEAKIN**  
UNIVERSITY AUSTRALIA



**LA TROBE**  
UNIVERSITY



**MONASH** University