Advance Notice

The Analytical Chemistry Group will be presenting a one-day seminar:

What’s New in Laboratory Instrumentation 2018

Wednesday 18th July
Exhibition Space, Building 500
Curtin University, Bentley

**Instrument manufacturers and suppliers are invited to reserve a table and a speakers slot by contacting Alistair Day at alistair_day@leco.com or phone +61 429 190 200.**

Wanted: Academic Analytical Chemist

The RACI WA Analytical Chemistry Group (ACG) is looking for an academic chemist!

We currently have no committee member to represent the interests of academia on the ACG and are looking for a volunteer. The role has two commitments: attendance at the monthly committee meeting held on a Thursday at 1.30pm at Curtin University and representing the committee at bi monthly telephone conferences held by the National Analytical Chemistry Group. The national group is academically focussed, hence the need for a local committee member who swims in those waters....

Interested parties should contact the ACG Committee Chairman, Al Day on 0429190200 or at alistair_day@leco.com."

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- Monthly Meeting Schedule
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Chemistry in Australia online

Did you know you can read Chemistry in Australia online?

Find a free pdf of each month’s full issue here: [http://chemaust.raci.org.au/](http://chemaust.raci.org.au/)
Please come to the RACI Members Monthly Meeting. This is a great chance to meet fellow members and be entertained by guest speakers. **All welcome – membership is not a prerequisite to attendance (so please bring a friend).**

**Date:** Usually 3rd Tuesday of every month  
**Time:** From 5.30pm. Seminar/presentation commences at 6.15pm. Refreshments prior and at seminar conclusion  
**Venue:** Exhibition Area, Building 500, Curtin University  
**Cost:** $5 charge to cover refreshments (limited drinks and snacks) (receipts can be provided)  
**RSVP:** wabranch@raci.org.au to assist with catering purposes  
Or register online (preferably by Friday before meeting)

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**APRIL 2018**  
**Tues 17th**  
**Curtin**

The April MMM will be held jointly with the Australian Water Association. Access to safe drinking water is crucial for economic growth and poverty reduction. Water resources are also critically important for agriculture and food production and industry, making their sustainable use and protection from pollution essential. However, many communities and governments around the world struggle to supply safe drinking water and effectively manage their water resources. Perth's increase in population, coupled with declining rainfall has resulted in our traditional sources of water, the dams, being unable to satisfy demand. Over recent decades, the Water Corporation has introduced climate independent sources to help meet demands. These include groundwater replenishment and desalination schemes. The Australian Water Association (AWA) is the national peak water organisation, delivering information, expertise and collaboration for sustainable water management. Both the Water Corporation and the AWA are important players in the sustainable use and management of our valuable resources. The April MMM will have an education focus and we will have two short talks from speakers working in the water industry.

**Speakers:**  
Garth Walter, Programmed, Alliance General Manager and Non Executive Director of the AWA  
Stacey Hamilton, Senior Technical Advisor - Membrane Treatment at Water Corporation

Please register: [here](#)

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**MAY 2018**  
**Tues 15th**  
**WASA**  
**Canning vale (note different venue)**

Laboratory tour of the WA Specialty Alloys Melting and Forging facility in Canning Vale.

Venue is at 2-4 Hopewell St Canning Vale. Meet at 5.30pm for a 6.00 tour. There will be two groups touring the facility. Tours will be followed by a sausage sizzle. Note: Trousers and covered shoes are required at this facility. Non-RACI members are welcome.

See full notice on page 5.

Please register by Thursday 10th May: [here](#)
Q: Why did the acid go to the gym?
A: To become a buffer solution!

Q: Why did Chlorine's sisters Boron and Carbon lock her in the closet?
A: Because she was too attractive!

Q: Why did Carbon marry Hydrogen?
A: They bonded well from the minute they met.

The RACI - what do you get for your membership dollar?

- Professional Recognition - use of the MRACI or FRACI post nominal which improves your professional status;
- Code of Ethics - establishes and maintains high standards;
- Knowledge - improves your efficiency and opportunity for promotion;
- Education - broadens your understanding;
- Professional Development activities keep you informed of current technologies, research and applications;
- RACI Publication 'Chemistry in Australia' - keeps you current within the wider chemical community;
- Eligibility for The RACI National, Branch or Divisional awards. Achievement in these areas can enhance your CV;
- Access to a wide range of local functions for networking with colleagues from all sectors - improve your contacts and knowledge;
- Discounted registration to RACI lectures, functions and conferences;
- Special interest groups;
- Global Access - access to RACI network expands your access to others.

The RACI is actively promoting the value of professional qualifications to employers for consideration at employment, promotion and salary review occasions. In addition to professional qualifications, a magazine and professional development activities. The RACI offers Financial Members, a range of other incentives which are listed here [www.raci.org.au/national/membership/benefits.html](http://www.raci.org.au/national/membership/benefits.html)
Case You Missed the Big News:

WA RACI Branch has a Twitter site (@RACI_WA)!
To join the birdcage see Twitter guide on the RACI website:
If you don’t want to sign up, you can view our Twitter account by Googling “@RACI_WA”
In this mode you can’t follow or be followed!
Click on your first hit and our wonderful Twitter site comes up:

You don’t have to sign up to browse your area of interest. RACI_HQ is also a good one to look at. Enjoy!
@AlfLarcher, larcheralf@gmail.com

Q: How many software engineers does it take to change a light bulb?
A: None. That’s a hardware issue.

Q: How many theoretical physicists specializing in general relativity does it take to change a light bulb?
A: Two. One to hold the bulb and one to rotate the universe.
The WA RACI Analytical Group is pleased to announce

An exciting tour of the
WA Specialty Alloys Melting and Forging Facility

Western Australian Specialty Alloys (WASA) operates specialist melting and forging facilities at sites in Perth, Western Australia and Albury, New South Wales. The WASA melting facility was commissioned in late 1993 and the Nickel alloy forging capability was acquired in 2013. WASA employs 163 people. WASA produces superalloy ingot, billet and bar for forging and ring rolling applications for a range of aerospace, power generation and oil & gas applications.

Vacuum Induction Furnace: WASA’s vacuum induction furnace has a melting capacity of 5 tonnes, 10 tonnes or 15 tonnes and can produce input stock for master melts or secondary and tertiary melting.

Electro Slag Remelting: WASA operates modern Consarc and ALD manufactured ESR furnaces for the supply of round double melted VIM + ESR ingots or as feedstock for the VAR in the triple melt VIM + ESR + VAR process.

This is a fantastic opportunity to see a specialty metals operation in Perth.

A sausage sizzle will also be held after the tour to cater for big appetites and networking. This event is being held as the May RACI Members Monthly Meeting and includes the usual fee of $5 payable at the door which will include a sausage sizzle and the usual drinks.

Date: Tuesday 15th May 2018
Time: 5.30pm for 6:00 pm. There will be two groups touring the facility.
Where: WA Specialty Alloys
       2-4 Hopewell St
       Canning Vale WA 6155

You will need to wear long trousers and covered shoes.

Please register by Thursday 10th May  here
Note that non-members are welcome.

Advanced Notice – July 17th MMM

Our Guest Speaker will be the WA State Minister for Science
The Hon Dave Kelly BA MLA

Full details soon, for additional information see:
https://www.premier.wa.gov.au/Ministers/dave-kelly/Pages/default.aspx
@Davekellymp
Introducing Dr. Zhi Ling Zeng, Partner at Lord and Company

I know Zhi Ling for many years via Royal Australian Chemical Institute. She was an active member during her student times and then in the Woman in Chemistry Group and Health Safety and Environmental Group. She is a brilliant chemist obtaining a BSc biochemistry and chemistry (Hons) from the University of Western Australia (UWA) in 1998. Zhi Ling gained research and industry experience by working at Alcoa as a chemical analyst and at UWA as a research assistant for Prof. Jack Harrowfield. She then further her career obtaining a PhD in Bio-analytical chemistry from the University of Queensland in 2006 and continued to work at the university as a Research Fellow.

Her interest in innovation was always there, therefore in late 2000s when she saw Lord and Company’s ad for a position of Technical Assistant in their Patent and Trademarks Attorneys firm, she jumped to it and obtained the position. She integrated perfectly in the team, and with their help and working hard she obtained her Master’s degree in Intellectual Property, IP. After working for 5 years for Lord and Company she wished to broaden her horizn by working overseas. First big step was Singapore, followed by Beijing and then closer to home: Auckland, New Zealand.

Zhi Ling built over a decade’s experience in securing IP rights for clients. She is well versed with the complexities of local and international IP practices. Although specializing in the chemical, pharmaceutical and biotechnology fields, Zhi Ling also regularly drafts and prosecutes patent applications pertaining to food, medical, semiconductor and mechanical technologies.

Whilst working internationally, Zhi Ling has drafted patent applications for world’s leading research institutes and handled the patent portfolios of major chemical, pharmaceutical, animal health, food and beverage and polymer products companies. She has also advised clients on freedom-to-operate and patent infringement and validity issues relating to pharmaceutical, food, alloy/steel and fabric coating compositions. In addition, Zhi Ling has secured design and copyright right registrations for small to medium enterprises in countries such as China and New Zealand.

(Continued next page)
Introducing Dr. Zhi Ling Zeng, Partner at Lord and Company (Continued)

Zhi Ling’s extensive and unique experience puts her in a strong position to advise clients on local and international IP issues.

She is a Registered Patent & Trade Mark Attorney – Australia and New Zealand. Always interested in advancing her profession Zhi Ling published in her field. For her achievements Zhi Ling was Named by Who & Who Legal in 2016. She is a member of: Institute of Patent and Trade Mark Attorneys Australia, New Zealand Institute of Patent Attorneys and Royal Australian Chemical Institute.

All of us at Lord and Company are happy that she came back to Perth and she accepted the Partner position offered by Kelvin Lord, Principal-owner of the company founded in 1979. Kelvin, a RACI Fellow and the longest serving past treasurer of RACI WA (2000-2008) is a long time supporter of RACI WA, by sponsoring the WA Newsletter and many of the organization activities.

We are proud that a chemist like us and a RACI member achieved so much and looks forward to advance Western Australian and Australian science and innovation.

Good luck Zhi Ling!

Oana Lord  FRACI
WILF EWERS AWARD 2018

Nominations from RACI (WA) members are now required for the W E Ewers Citation Award. The citation recognises contributions made to furthering the profession of chemistry. It is expected these contributions will normally be made by virtue of the nominee’s activities within and for the RACI Western Australian Branch. The Wilf Ewers citation is not meant to cover achievements in chemical science and technology since these are recognised by other RACI awards such as the H G Smith and Applied Research Medals.

Previous Wilf Ewers award winners are:
1990   Dr David Phillips, Curtin University (Editor, Branch Newsletter)
1991   Mrs Margaret Martin, Aquinas College (BYL activities)
1992   Mr Reg Wray, Wray Associates (WA Branch President)
1993   Mr Chris Dodd, CCWA (Analytical Chemistry Group activities)
1994   Mrs Jan Hosking, CSIRO (12AC/3EC Chair and organiser)
1995   Dr Armand Zurhaar, Zedcon Scientific Services (NCW activities)
1996   Mr Harry Douglas, E&DG Consultancy (WA Branch Coordinator)
1997   Professor Mel Sargent, UWA Chemistry Dept. (SAC Chair for WA)
1998   Mr Ian Sills, Curtin University (Chair, Analytical Chemistry Group)
1999   Dr Steve Errington, Curtin University (WA Branch activities)
2000   Mr Roger Schulz, CCWA (Health, Safety & Environmental activities)
2001   Dr Mauro Mocerino, Curtin University (Chair Chem. Ed. Group)
2002   Mr Stewart Jones, Aust. Govt Analytical Labs (WA Branch activities)
2003   Mrs Oana Chirila, Aust. Govt Analytical Labs (WA Branch activities)
2004   Mr Peter McCafferty, CCWA (WA Branch activities)
2005   Mr Mike Rowe, Dept of Industry and Resources (Services to the WA Branch)
2006   Dr Paula McLay, National Measurement Institute (Branch Newsletter Editor)
2007   Mr Rick Staker, SGS Australia Pty Ltd (Chair, Analytical Chemistry Group)
2008   Mr Reg Rowe, Rowe Scientific Pty Ltd. (WA Branch Committee, Treasurer, Sponsor)
2009   Mr Kelvin Lord, Lord & Co (WA Branch Committee, Treasurer, Sponsor)
2010   (not awarded)
2011   Dr Maree Baddock - St Hilda’s Anglican School for Girls (Chemical Ed Group activities)
2012   Dr Kathryn Linge, Curtin Uni (WA Branch Activities)
2013   Mr Shane Koenig, Nufarm (WA Branch Activities)
2014   Professor Simon Lewis – Curtin Uni (WA Branch & Chemical Education Group activities)
2015   Mr Peter Anstis, NMI (Analytical Chemistry Group)
2016   (not awarded)
2017   Dr Alf Larcher, CSIRO (WA Branch Activities)

Nominations must be submitted to the RACI WA Coordinator, wabranch@raci.org.au, before COB Friday, 20 July 2018. All nominations will be considered by a selection committee consisting of the Past President, current President and two non-Branch Council RACI members. The award is a cheque for $250 and an official scroll which will be presented at the National Science Week Dinner in August 2018.

I heard hamburger has less energy than steak because hamburger is in the ground state.

Q: What is the chemical formula for the molecules in candy?
A: Carbon-Holmium-Cobalt-Lanthanum-Tellurium or CHoCoLaTe
CALENDER OF EVENTS FOR 2018
Presented by Rowe Scientific Pty Ltd

www.rowe.com.au

10.04.2018 Branch Committee Meeting Room 500.3101 “pod”, Building 500, Curtin Uni WA Branch RACI
17.04.2018 Monthly Members Meeting Exhibition Space, Building 500, Curtin Uni. WA Branch RACI
15.05.2018 Monthly Members Meeting WA Specialty Alloys, Canning Vale WA Branch RACI
12.06.2018 Branch Committee Meeting Room 500.3101 “pod”, Building 500, Curtin Uni WA Branch RACI
19.06.2018 Monthly Members Meeting TBA - UWA/Murdoch WA Branch RACI
June 2018 Titration Stakes Part 1 Building 500, Curtin Uni Chem Ed Group
17.07.2018 Monthly Members Meeting Exhibition Space, Building 500, Curtin Uni. WA Branch RACI
18.07.18 What’s New in Laboratory Instrumentation Exhibition Space, Building 500, Curtin Uni. Analytical Group
14.08.2018 Branch Committee Meeting Room 500.3101 “pod”, Building 500, Curtin Uni WA Branch RACI
11-19.08.2018 National Science Week
August 2018 National Science Week Awards Dinner Date and venue TBA WA Branch RACI
August 2018 Titration Stakes Final Murdoch Uni, Building TBA Chem Ed Group
August 2018 Student Career’s Night Date and venue TBA M&CD Group
18.09.2018 Monthly Members Meeting Exhibition Space, Building 500, Curtin Uni. WA Branch RACI

Enquiries to Branch Coordinator Ben Fletcher: 0403 022 968, wabranch@raci.org.au

The joy of work:

- I take my work one disappointment at a time.
- Does this cubicle make me look dead inside?
- Boldly go where no man has gone before. Go clean the company fridge.
- I’d feel much more secure about my job if I knew how to do it.
- All those ugly rumours about my supervisor are true.
- A normal co-worker is just one you don’t know real well.
- Errors have been made. Others will be blamed.
- I’m the perfect example of how little hard work and determination matters.

E-MAIL ADVERTISING RATES
Three-quarters of the total RACI WA Branch membership and Environmentalists (totalling about 500 of a select and highly targeted group) are registered to receive e-mail notices from the Branch Committee. Those RACI members who have a need to circulate an urgent message or advertisement of general interest to WA Branch members can request approval (wabranch@raci.org.au) to have the advert (sans attachment) circulated free of charge. If the advert is of a revenue producing nature then a charge of $120 +GST will be made.

NEWSLETTER ADVERTISING RATES
SINGLE ADVERTISEMENT: $120 +GST for one-quarter A4 page, $160 +GST for one-third A4 page, and multiples thereof, for print ready artwork or a print ready MS Word file.
MULTIPLE ADVERTISEMENTS: for three or more consecutive newsletter issues, a discount of 25% applies.
PAYMENT for all issues must be made in advance and within 7 days of receipt of invoice.

Branch Newsletter Deadlines For 2018

<table>
<thead>
<tr>
<th>Month of Journal</th>
<th>Deadline Date</th>
<th>Deadline is close of business (5 pm) on the nominated dates.</th>
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</thead>
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<tr>
<td>May</td>
<td>Friday 20 April</td>
<td>Please submit all articles to <a href="mailto:raciwanewsletter@gmail.com">raciwanewsletter@gmail.com</a></td>
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<tr>
<td>June</td>
<td>Friday 25 May</td>
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