Dear NSW RACI readers

Below are this week’s announcements from the RACI NSW Branch, a summary is given and then scroll down for the full text.

Attention all RACI members – are you free to assist for a few hours tomorrow for Science Week activities? Edwina would love to hear from you! Our Marvellous Molecules Display and interactive model making activity will be in a prime location Level One Power House Museum the Turbine Room. Between 10am-4.30pm

Chemistry Magic Shows - Macquarie University. Three shows run at 11 am, 1 pm and 3 pm on September 13

Website of the Week: This week we look at Sleeks and Geeks Eureka Prizes – for science videos

http://www.abc.net.au/science/sleekgeeks/eureka/2008/
We can recommend several of videos – the Winner of the University division is very witty, whilst the Highly Commended Primary entry on volcanos has the “Cute” factor

Come and hear the Young Tall Poppy Winner Speak At the RACI September Presentation Evening (and AGM) September 10 UNSW Kate Jollife will be speaking on “Molecular design: Creating useful Compounds” read Page 4 for more details

Position Vacant

POSITION: Professor of Pharmacology
DEPARTMENT: School of Medical Sciences, Faculty of Medicine
USyd
TYPE: Senior Academic
REF NO: S08/084

RACI PHARMACEUTICAL SCIENCE GROUP (NSW) AUDIT PRACTICES AND REQUIREMENTS

Seminar: 3 September, 2008 North Ryde RSL - Magdala Rd North Ryde

Networking Dinner The Industrial Chemistry Division will be hosting a networking dinner Monday 29th September as part of the Chemeca 2008 conference to be held in Newcastle

NSW Branch AGM and Call for Nominations If you wish to nominate someone as an office bearer (Secretary, Treasurer, etc), or committee member please contact the branch office RACINSW@chem.unsw.edu.au and a nomination form will be sent. We welcome new members to nominate, and all members to consider how they may get involved!

Industrial Chemistry Division AGM at Chemeca 2008 The Industrial Chemistry Division will be holding its Annual General Meeting (AGM) Tuesday 30th September at the Chemeca Conference.

Deadline for next weeks edition is 5pm Thursday Sept 4 We welcome all article suggestions and ideas
An innovation challenge  Technology to Reduce the Wettability of Resin Substrates against Organic Solvents - A multi-billion dollar chemical manufacturer invites proposals for wettability reducing agents (additives), coating agents, or surface processing technologies that reduce the wettability of resin or plastic substrates with respect to organic solvents. For more information email john@anotec.com.au

13th Annual RACI vs ASCC Golf Challenge 2008  at CARNARVON GOLF CLUB Nottinghill Road LIDCOMBE Wed 22nd Oct

WSS 2008 Honours Prize presentation evening and Careers Night.  When:  Tuesday 14th October 2008 Venue:  University of Western Sydney Campbelltown Campus (Building 22, Conference Room 5)

WSSS September Meeting “Catching the Cheats – the chemistry behind sports drugs testing”  Dr Adam Cawley When:  Tuesday 16th September 2008 Venue:  University of Western Sydney Campbelltown Campus (Building 22, Conference Room 5)

UWS Careers & Cooperative Education is now accepting requests for students to complete Summer Vacation Projects.

Upcoming RACI Conferences and Symposia As evidenced by the lengthy E News’ of late there is an awful lot going on at the moment. This article summarises all the upcoming conferences and symposia

Missed an edition of our weekly E-News?  We now have an archive of old editions! Please see

http://www.chem.unsw.edu.au/RACI/News.html

Its here!!! The New 2008/2009 Entertainment Book has arrived:  This book has been an important fundraiser for our branch the last few years. Purchase your brand new 2008/2009 Entertainment™ Book now

Important Dates in Chemistry’s History Aug 29-Sept 4  We will celebrate a number of birthdays for Chemistry Noble Prize winners. Amongst these, the man who theorised radioactive decay, and the founder of Ultracentrifucation.

Please scroll down for further details.....

Deadline for next weeks edition is 5pm Thursday Sept 4 We welcome all article suggestions and ideas
**RACI and Science Week – the last big event coming up**

Many of you have followed the progress of our science week events through our Weekly E News.

We have received confirmation that we have been moved to a very coveted location in the Powerhouse Museum for our last hurrah for Science Week 2008!

Our Marvellous Molecules Display and interactive model making activity will be in a prime location **Level One Power House Museum the Turbine Room**. Between 10am-4.30pm

If you can even spare an hour or two to assist on the day please contact Edwina at the RACI office. We will round out the day with some UTS Colleagues (50 metres up the road) with a drinks and nibbleys to relax and celebrate the close of Science Week.

**Chemistry Magic Shows - Macquarie University.**

This year, there are three shows run at 11 am, 1 pm and 3 pm on September 13
The venue is Lecture Theatre 3 in Building E7B. You will be able to get a copy of the campus map at [http://www.openday.mq.edu.au/naos.php](http://www.openday.mq.edu.au/naos.php)

In past years, the theatre was always a full house in each session. Be early to grab a seat!

**Website of the Week**

**Sleeks and Geeks Eureka Prizes – for science videos**


We can recommend several of videos – the Winner of the University division is very witty, whilst the Highly Commended Primary entry on volcanos has the “Cute” factor.
Deadline for next weeks edition is 5pm Thursday Sept 4 We welcome all article suggestions and ideas
Position Vacant

POSITION: Professor of Pharmacology  
DEPARTMENT: School of Medical Sciences, Faculty of Medicine  
TYPE: Senior Academic  
REF NO: S08/084

The Faculty of Medicine is the first and largest medical school in Australia with an annual budget in excess of $250M. Part of the School of Medical Sciences within the Faculty of Medicine, the Discipline of Pharmacology provides a vibrant and dynamic environment for conducting high quality research and teaching.  
The successful candidate will have with an outstanding opportunity to shape the future direction of Pharmacology teaching and research across the University of Sydney. 
Qualified to PhD level the successful candidate must be able to demonstrate:  
* An international profile with a strong record of original research in the field of Pharmacology (and/or the related disciplines of toxicology and medicinal chemistry)  
* A distinguished personal contribution to teaching, together with a strong commitment to the importance of teaching at all levels and to innovation in curriculum design and teaching methods  
* The ability to take an active role in the maintenance of academic standards and in the development of educational policy and of curriculum areas within Pharmacology  
* Outstanding scholarship and research of international standing in a particular field of knowledge, professional or creative activity with a breadth of interests and an appreciation of other research interests represented in the Discipline  
* Vision and enthusiasm, demonstrated ability to provide leadership in fostering excellence in scholarship, in promoting research and research policy and in encouraging and developing research training  
* Good management skills, a willingness and ability to perform high level administrative tasks, to provide leadership in policy development in a discipline and to represent the Discipline and School’s interests within the University and the wider community both scholarly and general  
* The ability to encourage the development of staff, to recognize and resolve potential conflict and to maintain good personal relations with and between staff or a perceived ability to do so  
* Participation in and provision of leadership in community affairs, particularly those related to the discipline of Pharmacology in professional, commercial and industrial sectors where appropriate

More details for the position can be found at: [http://fmweb01.ucc.usyd.edu.au/personnel/FMPro?db=per%5fvacancy.fp5&format=jobdetail.html&lay=full&approved=Yes&available=1&recid=38282&find](http://fmweb01.ucc.usyd.edu.au/personnel/FMPro?db=per%5fvacancy.fp5&format=jobdetail.html&lay=full&approved=Yes&available=1&recid=38282&find)

Deadline for next weeks edition is 5pm **Thursday Sept 4** We welcome all article suggestions and ideas
Networking Dinner

The Industrial Chemistry Division will be hosting a networking dinner Monday 29th September as part of the Chemeca 2008 conference to be held in Newcastle (www.chemeca2008.com). An excellent opportunity to find out about RACI membership, the Industrial Chemistry Division and state-based Industrial Chemistry Groups. For further details and to register your participation please contact Christine Wasiowych: christine@sumitomo-chem.com.au by Friday 19 September.

NSW Branch AGM and Call for Nominations

If you wish to nominate someone as an office bearer (Secretary, Treasurer, etc), or committee member please contact the branch office RACINSW@chem.unsw.edu.au and a nomination form will be sent. We welcome new members to nominate, and all members to consider how they may get involved!

Industrial Chemistry Division AGM at Chemeca 2008

The Industrial Chemistry Division will be holding its Annual General Meeting (AGM) Tuesday 30th September at the Chemeca Conference. The AGM will include election of Office Bearers - Chair, Treasurer, Secretary – who must be Australian residents and RACI Corporate Members. The call for Office Bearer nominations is open from Friday 8th August and closes Friday 5th September.

Please forward nominations by Friday 5th September to the Returning Officer: RACINSW@chem.unsw.edu.au

An innovation challenge

Technology to Reduce the Wettability of Resin Substrates against Organic Solvents - A multi-billion dollar chemical manufacturer invites proposals for wettability reducing agents (additives), coating agents, or surface processing technologies that reduce the wettability of resin or plastic substrates with respect to organic solvents. For more information email john@anotec.com.au

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The RACI WSS would like to acknowledge the extremely high standard of the many entries received for the 2008 Honours Prize. To do this, we have arranged 3 of the talented young chemists to give short presentations on their Honours projects.

In addition, the evening will conclude with some valuable career and job preparation advice for new chemistry graduates. This will be presented by a representative from Techstaff, a specialist recruitment company.

When: Tuesday 14th October 2008  
Venue: University of Western Sydney  
Campbelltown Campus  
(Building 22, Conference Room 5)

Programme:

5.30 Wine & Cheese

6.00 RACI WSS Honours Prize Presentations
   Andrew McLeod, University of Sydney – Vanadium metabolism in the treatment of diabetes
   James Hennell, University of Western Sydney – Analysis of Anthocyanidins in Bilberry
   Anwen Krause-Heuer, Uni. of Western Sydney - Encapsulated Pt(II) Anti-cancer Drugs

7.00 Careers advice for new chemistry graduates
   Ms Melanie Wilson (NSW Manager, Techstaff)

7.20 Questions & Discussion
7.30 Close

Dinner at Local Restaurant. All Welcome (own expense)

For additional information please contact:

Dr Gary Bowman  Tel. 9857 – 2372  
Email: gary.bowman@reckittbenckiser.com

Deadline for next weeks edition is 5pm Thursday Sept 4 We welcome all article suggestions and ideas
The problem of doping in sport represents a public health and equity issue. The detection of doping practices, however, is itself an issue that requires the development of reliable, non-invasive and cost-effective analytical methods. The race by anti-doping scientists to stay ahead of the cheaters is one considered by some in the community to be lost. Contradicting such views, the past decade has provided many scientific advances and put the “good guys” in front! Chemistry plays a fundamental role in analytical techniques that seek to determine the origin of hormones as being from the body or the bottle. This presentation will illustrate the journey that anti-doping science has made from the analysis of stimulants to steroids, proteins and, potentially in the future…genes.

For additional information please contact:

Dr Gary Bowman  
Tel. 9857 2372  
Email: gary.bowman@reckittbenckiser.com
Dear Employer

Do you need an extra resource over summer?

UWS Careers & Cooperative Education is now accepting requests for students to complete Summer Vacation Projects. For $3,000 + GST (less for community and not-for-profit organisations) you can resource a 5-week project which has been ‘put on the backburner’ whilst assisting in the career development of a UWS student or recent graduate. Projects can be extended as required.

Placement Programs

UWS’ flagship placement programs have been linking organisations in Greater Western Sydney and beyond with students for 13 years. A range of flexible programs are available, including Internships to give you the opportunity to resource a longer term position or trial a student or graduate for ongoing employment. Internships are available all year round, and can be extended as required.

UWS handles the advertising, recruitment, payroll and insurance, to give you a hassle-free staffing solution. Vacation Project students receive training in project management, business communication and report writing, and all placements are monitored by Careers & Cooperative Education staff, to give you peace of mind.

Additional Services for Employers

In addition to placement programs, UWS Careers & Cooperative Education offers a range of services to employers including

http://uws.edu.au/community/in_the_community/careers/job_and_placement_advertising> advertising

job advertising and shortlisting
<http://uws.edu.au/community/in_the_community/careers/job_advertising_and_shortlisting>
careers expos <http://uws.edu.au/community/in_the_community/careers/careers_expos>

employer presentations on campus
http://uws.edu.au/community/in_the_community/careers/employer_presentations_on_campus>
career <http://uws.edu.au/community/in_the_community/careers/careers_mailouts> \ mailouts and emailouts
careers event advertising
http://uws.edu.au/community/in_the_community/careers/careers_event_advertising>

job interviews on campus <http://uws.edu.au/community/in_the_community/careers/job_interviews>

Contact us

To express your interest in hosting a Summer Vacation Project or other placement, please complete contact Elien Weeks, Program Coordinator, on 4736 0364 or at e.weeks@uws.edu.au

The Careers & Cooperative Education team

Deadline for next weeks edition is 5pm Thursday Sept 4 We welcome all article suggestions and ideas
Upcoming Conferences and Symposia

23rd RACI Organic Division Conference, ORGANIC 08, Hobart, Tasmania 7 – 12 December 2008
Early bird registration and abstracts close 31st August.
Register online at http://www.organic08.org/

ACROSS Symposium on Advances in Separation Science

The key dates for the conference

17th of October 2008 Abstract Deadline for Oral and Poster Presentations
31st of October 2008 Notification of abstract acceptance and finalisation of the program
14th of November 2008 Deadline for Early Registration
8th of December 2008 Opening of the Symposium

16th RACI R&D Topics Student Conference. This year it is being held again in NSW! Macquarie University Saturday, December 6 - Tuesday, December 9 The call for Poster and Oral Presentations has now gone out – Abstract Submissions will be accepted until Sept 15

WATOC 2008: Eighth Triennial Congress of the World Association of Theoretical and Computational Chemists, Sydney, Sept 14-19

RACI Electrochemistry Symposium: New materials and New Methods in Electrochemistry Nov 27-28 @ UNSW

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**NSW RACI Organic Symposium 2008** Location: School of Chemistry, University of Sydney, NSW 2006 Date: Wednesday December 3rd


**RACI NSW NATURAL PRODUCTS CHEMISTRY GROUP ANNUAL ONE-DAY SYMPOSIUM** Southern Cross University, Lismore, NSW, Friday, 3rd October 2008


**ChemEd 08** Notre Dame University, Fremantle, Western Australia Early Registration: Closes 31 August 2008 Abstract Submission: Closes 31 August 2008 Final Registration: Closes 21 November 2008

[http://www.raci-chemed08.org](http://www.raci-chemed08.org)

Important Dates in Chemistry’s History Aug 29-Sept 4

29
- **1834 Hermann J. P. Sprengel**, researcher in discharge tubes, invented vacuum pump.
  - Observation of first atom of element 109 at GSI Laboratory, Darmstadt, 1982.

30
- **1852 Jacobus H. van't Hoff**, researcher in physical chemistry of reaction velocity, thermodynamics, theory of dilute solutions & osmotic pressure; proposed the tetrahedral carbon, 1874; first Nobel Prize in chemistry (1901) in recognition of the extraordinary services he has rendered by the discovery of the laws of chemical dynamics and osmotic pressure in solutions
- **1871 Ernest Rutherford** formulated theory of radioactive decay, 1903; discovered the atomic nucleus, 1911; made first nuclear transmutation, 1919; Nobel Prize (1908) for his investigations into the disintegration of the elements, and the chemistry of radioactive substances.
- **1884 Theodor Svedberg**, researcher on ultracentrifuge for determining molecular weights & sizes of proteins; Nobel Prize (1926) for his work on disperse systems.

31
- **1786 Michel E. Chevreul**, researcher on dyes & physics of color; discovered stearin & margarine; lived to 100.
- **1887 Frederick A. Paneth**, researcher on age of rocks by measuring helium formed.

September
1
- **1873 B. Smith Hopkins**, researcher on rare earths; with Leonard Yntema and J. Allen Harris discovered the long sought element 61, which they named "illinium." (now known as technetium).
- **1877 Francis W. Aston** introduced the mass spectrograph, 1919; measured mass of several isotopes to accuracy of 1/1000; Nobel Prize in Chemistry (1922) for his discovery, by means of his mass spectrograph, of isotopes, in a large number of non-radioactive elements, and for his enunciation of the whole-number rule
  - Rohm & Hass Co. founded 1909.

2
- **1853 Wilhelm Ostwald**, researcher on affinity, mass action, theories of solutions, & conductivity (Ostwald’s Law of dilution & conductivity); Nobel Prize in Chemistry 1909) in recognition of his work on catalysis and for his investigations into the fundamental principles governing chemical equilibria and rates of reaction.
- **1877 Frederick Soddy**, researcher in radioactivity & isotopes; displacement law of radioactive change; Nobel Prize in Chemistry (1921) in recognition of his work on catalysis and for his investigations into the fundamental principles governing chemical equilibria and rates of reaction.

3
- **1869 Fritz Pregl**, researcher in microchemical analyses; Nobel Prize in Chemistry (1923) for his invention of the method of micro-analysis of organic substances.
- **1938 Ryoh Noyori**, researcher in asymmetric hydrogenation; Nobel Prize in Chemistry (2001) with William S. Knowles for their work on chirally catalysed hydrogenation reactions and K. Barry Sharpless for his work on chirally catalyzed oxidation reactions.

4
- **1913 Stanford Moore** Nobel Prize in Chemistry (1972) with William H. Stein for their contribution to the understanding of the connection between chemical structure and catalytic activity of the active centre of the ribonuclease molecule and Christian B. Anfinsen for his work on ribonuclease, especially concerning the connection between the amino acid sequence and the biologically active conformation.

Ref: Monthly Historical Events In Chemistry by Leopold May, The Catholic University of America
http://faculty.cua.edu/may/Chemistrycalendar.htm

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