



## **WEEKLY “E” NEWS- from the RACI NSW 29th August 2008**

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. The venue is Lecture Theatre 3 in Building E7B.

**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 Jolliffe 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](mailto: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](mailto:john@anotec.com.au)

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

**WSS 2008 Honours Prize presentation evening and Careers Night.** When: Tuesday 14<sup>th</sup> 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 16<sup>th</sup> 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 Symposiums** 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 nibbly 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>

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**

<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



## RACI NSW SEPTEMBER PRESENTATION EVENING (AND AGM)

We are pleased to invite you to attend our special September Meeting

The evening will be a celebration of the Branch's events throughout the year, congratulate our new Fellows, welcome new members, and catch up with RACI friends.

The evening will also provide an opportunity to hear the Young Tall Poppy Winner, Kate Jolliffe. The title of her presentation

**"Molecular Design: Creating Useful Compounds"**

The evening will conclude with an informal catered function.

**Date:**

Wednesday, September 10, 2008

**Venue:**

Seminar Room, Ground Floor, Dalton Building, School of Chemistry, UNSW

**Time:**

From 5.30pm (Pre-presentation Drinks)

6pm Presentation and Prize Giving begins

7.45pm-10.30pm Catered Function

**Costs:**

**Admission for the whole evening** (includes pre-meeting drinks, nibbles, the presentations and the catered function with plenty of food, beer, wine and soft drink) RACI members and their partners \$35, non members \$40. RACI Student Members \$30

**Admission for the presentation evening only** (includes pre-meeting drinks, nibbles, the presentations only) RACI members \$10, non members \$15

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**RACI NSW September Special Meeting and Event**

Name/s of attendees: \_\_\_\_\_

Attending: Whole evening event \_\_\_\_\_ Talk and Presentations only \_\_\_\_\_

Method of Payment: (circle) Cheque/VISA/ Mastercard

CC NO \_\_\_\_\_ Exp \_\_\_\_/\_\_\_\_

Name on Card \_\_\_\_\_ Total due \$ \_\_\_\_\_

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=>

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## RACI PHARMACEUTICAL SCIENCE GROUP (NSW)

### AUDIT PRACTICES AND REQUIREMENTS

3 September, 2008 North Ryde RSL - Magdala Rd North Ryde Contact Edwina Hine for further details and registration forms - [RACINSW@chem.unsw.edu.au](mailto:RACINSW@chem.unsw.edu.au)

## 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](http://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 Wasioych: [christine@sumitomo-chem.com.au](mailto: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](mailto: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](mailto: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](mailto:john@anotec.com.au)

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# MGK ASIA-PACIFIC Pty. Ltd.



presents the

## 13<sup>th</sup> Annual RACI vs ASCC Golf Challenge 2008 at CARNARVON GOLF CLUB Nottingham Road LIDCOMBE



The Australian Society  
Of Cosmetic Chemists

### Wednesday 22<sup>nd</sup> October 2008



#### Program

11 am Registration, Snack & Putting Competition.  
 11.30 am Tee – Off (Times will be advised) Golf and Dinner  
 5 pm Drinks  
 6 pm Dinner & Presentation

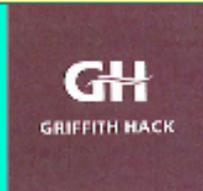
#### Fees: (include GST)

Golf only (includes snack & drinks) \$ 75  
 \$ 100  
 Dinner only (includes drinks) \$ 60

Bookings: Edwina Hine Tel. (02) 9663 4960  
[RACINSW@chem.unsw.edu.au](mailto:RACINSW@chem.unsw.edu.au)

Enquiries Gary Bowman Tel. (02) 9857-2372  
[gary.bowman@reckittbenckiser.com](mailto:gary.bowman@reckittbenckiser.com)

### Associate Sponsors



**Registration:** (Any number of players can register- groups will be assigned. Please indicate if you have a preference for partners)

Names: ..... E-mail: ..... Golf  Dinner  Amount \$.....  
 Names: ..... E-mail: ..... Golf  Dinner  Amount \$.....  
 Names: ..... E-mail: ..... Golf  Dinner  Amount \$.....  
 Names: ..... E-mail: ..... Golf  Dinner  Amount \$.....

Total \$ .....

#### Payments by 15 October 2008:

I wish to pay by cheque (payable to RACI NSW) or  
 Please debit my credit card  Visa  MasterCard  American Express

Card number: \_\_\_\_\_ Expiry date \_\_\_\_/\_\_\_\_ Amount  
 \$ \_\_\_\_\_

**SEND TO:** Edwina Hine; RACI NSW Branch, School of Chem. UNSW Sydney NSW 2052  
[RACINSW@chem.unsw.edu.au](mailto:RACINSW@chem.unsw.edu.au) Tel. (02) 9663 4960 or Fax. (02) 9385 6141



## RACI WESTERN SYDNEY SECTION

# Chemistry Honours Prize and Careers Evening

## 2008

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 14<sup>th</sup> 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](mailto:gary.bowman@reckittbenckiser.com)

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



## RACI WESTERN SYDNEY SECTION

# Catching the Cheats – The Chemistry Behind Sports Drugs Testing

When: Tuesday 16<sup>th</sup> September 2008

Venue: University of Western Sydney  
Campbelltown Campus  
(Building 22, Conference Room 5)

### **Programme:**

6.00 Wine & Cheese

6.30 Special Guest Speaker: **Dr Adam Cawley**  
Hon. Secretary and President-Elect RACI (NSW Branch)

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](mailto: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](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](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](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](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](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](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](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](mailto: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 Symposiums



**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

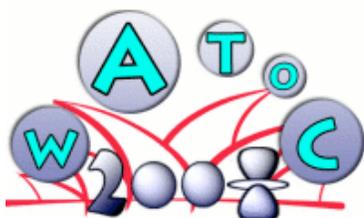


**8-10th of December 2008.** (<http://www.across.utas.edu.au/ASASS>)

### The key dates for the conference

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

**16<sup>th</sup> 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  
<http://www.cbms.mq.edu.au/rdtopics/index.html>



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

<http://www.watoc2008.com/>

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

[http://www.chem.unsw.edu.au/RACI/RACIElectrochemDiv%20webpage/raci\\_electrochemistry\\_symposium.htm](http://www.chem.unsw.edu.au/RACI/RACIElectrochemDiv%20webpage/raci_electrochemistry_symposium.htm)



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

<http://www.chem.unsw.edu.au/RACI/NSWOrganic2008.pdf>



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

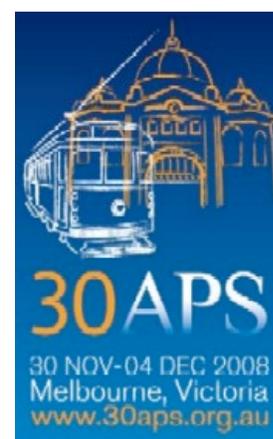


<http://www.chemeca2008.com/>

**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>

**30 APS - 30th Australasian Polymer Symposium** The Albert Park Sebel Hotel,  
Melbourne, Victoria <http://www.30aps.org.au>



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## Important Dates in Chemistry's History Aug 29-Sept 4

29

- b. 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

- b. 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  
b. 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.  
b. 1884 **Theodor Svedberg**, researcher on **ultracentrifuge** for determining molecular weights & sizes of proteins; Nobel Prize (1926) for his work on disperse systems.

31

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

### September

1

- b. 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).  
b. 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

- b. 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.  
b. 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

- b. 1869 **Fritz Pregl**, researcher in microchemical analyses; **Nobel Prize in Chemistry** (1923) for his invention of the method of micro-analysis of organic substances.  
b. 1938 **Ryoh Noyori**, research 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

- b. 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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