



WEEKLY "E" NEWS- from the RACI NSW 11th July 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.

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

Position Vacant Postdoctoral Research Fellow Faculty of Engineering School of Chemical Sciences and Engineering/School of Electrical Engineering and Telecommunications

Next ChemEd Meeting Monday 21st July – speaker meeting and AGM 5:00 pm snacks for 5:30 start University of Sydney, School of Chemistry Speaker – Amy Cotton from the Australian Institute of Teachers Topic: Endorsement of courses by the Institute of Teachers: how it works and what is does.

Members in the Media This week ABC Science News Featured RACI Member Dr Andrew McDonagh of the Centre for Forensic Science at the University of Technology, Sydney (UTS), or his work on clearer finger print imaging, utilising Zinc nanoparticles.

Catching the Cheats – The Chemistry behind Sports Drugs Testing. Wagga Symposium NSW Branch Secretary and President Elect Adam Cawley is travelling into the Riverina District to present this interesting and highly informative presentation “Catching the Cheats – The Chemistry behind Sports Drugs Testing.” August 6, 3pm, in Building 11, Room 109 Charles Sturt University Wagga

Remember to have your say! RACI Members with Corporate membership and above would have been sent from head office a ballot paper for Board elections (along with their tax invoice for this year). We ask all those eligible to cast a vote to do so - have your say in selecting who will represent you on the Board.

School holidays Fun The office has been notified of several events that may be suitable. Remember you may wish to avoid the centre of Sydney, as CWYD will see 1000s of visitors out and about. The article contains some links for some regional activities you and your kids may enjoy.

Young Tall Poppy Science Awards Are now open for nominations

Australian Learning and Teaching Council awards for higher education Are now open for nominations

RACI Office Closed – the next two weeks We wish to inform that the office will be officially closed until July 28. Catholic World Youth Day next week will mean it will be difficult to access the vicinity of UNSW. The coordinator will be working from home during this period, and hopefully spend plenty of time on her Thesis

*Deadline for next weeks edition is 5pm **Thursday July 31**. We welcome all article suggestions and ideas*

which requires some attention. She will be attending planned RACI events during the fortnight when the office is closed. In urgent RACI matters please contact [Adam Cawley](mailto:a.cawley@usyd.edu.au) a.cawley@usyd.edu.au

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

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

23rd RACI Organic Division Conference, ORGANIC 08, Hobart, Tasmania 7 – 12 December 2008

Website of the Week: To whom does the world turn to when it has a question? Well it will come as no surprise to any of you that many turn to “the bible” that is *Wikipedia*. So what does this phenomena say we (as chemists) are all about. Why not read for yourselves? <http://en.wikipedia.org/wiki/Chemist>

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

16th RACI R&D Topics conference Macquarie University Saturday, December 6 - Tuesday, December 9

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>

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

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 to receive over \$15,000 in valuable offers, valid through 1 June, 2009. The Entertainment™ Book is your guide to the best restaurants, hotel accommodation, attractions, sports and leisure activities... all with 25% to 50% off or 2-for-1 offers. In NSW there are four books available

Newcastle, Central Coast and The Hunter (*including Lake Macquarie, Port Stephens and the Hunter Valley*)

Parramatta, The Hills, Blue Mountains and Macarthur

Sydney (*includes Sydney CBD, Eastern Suburbs, Inner West, Southern Suburbs and more...*)

Sydney North (*includes North Sydney, the Northern Beaches, Upper and Lower North Shore and more...*)

We can also obtain interstate editions if you have friends in other states.

Important Dates in Chemistry's History July 11-17

Please scroll down for further details.....



MGK ASIA-PACIFIC Pty. Ltd.



presents the

**13th Annual RACI vs ASCC Golf Challenge 2008
at CARNARVON GOLF CLUB
Nottinghill Road LIDCOMBE**



The Australian Society
Of Cosmetic Chemists

Wednesday 22nd October 2008



Program

- 11 am Registration, Snack & Putting Competition.
- 11.30 am Tee – Off (Times will be advised)
- 5 pm Drinks
- 6 pm Dinner & Presentation
- Bookings:** Edwina Hine Tel. (02) 9663 4960
RACINSW@chem.unsw.edu.au

Fees: (include GST)

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

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



Drinks Sponsor



Dinner Sponsor

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

Names: E-mail: Names: E-mail: Names: E-mail: Names: E-mail:

Golf Dinner Amount \$.....
 Golf Dinner Amount \$.....
 Golf Dinner Amount \$.....
 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 Tel. (02) 9663 4960 or Fax. (02) 9385 6141

Position Vacant

Postdoctoral Research Fellow

Faculty of Engineering

School of Chemical Sciences and Engineering/School of Electrical Engineering and Telecommunications

REF. 5829NET

FIXED TERM - Salary: A\$65,503 - A\$70,062 per year (plus up to 17% employer superannuation plus leave loading.)

The School of Electrical Engineering and Telecommunications (A/Prof F. Ladouceur) in cooperation with the Optical Fibre Technology Centre at Sydney University (Dr A. Argyros) are looking for a Postdoctoral Research Fellow to work on the **synthesis of organic/hybrid materials** for photonics applications. This exciting opportunity is in collaboration with industry partners in the area of polymer optical fibres and organic thin film displays.

This is a 2 year fixed term position with the possibility to extend for a further period.

Applicants should systematically address the selection criteria in their application.

Having read all the documentation, you may then direct any enquiries to A/Prof F. Ladouceur
f.ladouceur@unsw.edu.au

<http://www.hr.unsw.edu.au/services/recruitment/jobs/info/pd27060810.pdf>

Next ChemEd Meeting

Next Meeting Monday 21st July – speaker meeting and AGM

5:00 pm snacks for 5:30 start

University of Sydney, School of Chemistry

Speaker – Amy Cotton from the Australian Institute of Teachers

Topic: Endorsement of courses by the Institute of Teachers: how it works and what is does. Why is there a dearth of science courses? 50 of a teacher's 100 hours of courses should be registered/endorsed by the Institute and yet there are only a handful of science courses and DET runs only one.

Margaret Lindsay, Secretary, NSW Chemical Education Group



Members in the Media

This week NSW RACI member Dr Andrew McDonagh of the Centre for Forensic Science at the University of Technology, Sydney (UTS), gained coverage in the media for his work on clearer finger print imaging, utilising Zinc nanoparticles. The story was featured on the ABC Science News website. The full story can be read at

<http://www.abc.net.au/science/articles/2008/07/07/2292298.htm?site=science&topic=latest>



Catching the Cheats – The Chemistry behind Sports Drugs Testing. Wagga Symposium Aug 6.

NSW Branch Secretary and President Elect Adam Cawley is travelling into the Riverina District to present this interesting and highly informative presentation “Catching the Cheats – The Chemistry behind Sports Drugs Testing.”



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.

August 6, 3pm, in Building 11, Room 109 Charles Sturt University Wagga.
For more details please contact PPrenzler@csu.edu.au

Remember to have your say!

RACI Members with Corporate membership and above would have been sent from head office a ballot paper for Board elections (along with their tax invoice for this year).

We ask all those eligible to cast a vote to do so - have your say in selecting who will represent you on the Board. The ballot paper was sent with a small bio of the two nominated members, so the voting community may make an informed decision. We wish both candidates good luck and are thankful to Assoc. Prof. Roger Read (UNSW and NSW RACI member) for accepting the nomination to stand as a candidate for election to the board.

Deadline for next weeks edition is 5pm Thursday July 31. We welcome all article suggestions and ideas

School holidays are upon us again!!

The office has been notified of several events that may be suitable for school holiday fun. Remember you may wish to avoid the centre of Sydney, as CWYD will see 1000s of visitors out and about. Below are some links for some regional activities you and your kids may enjoy.

Wangat Lodge camp

Start: 14 July 2008

End: 18 July 2008

Location

Wangat Lodge

1938 Chichester Dam Rd

Dungog 2420

Australia

We've organised another family camp up at Wangat Lodge at the foot of the Barringtons (near Dungog). There'll be bushwalking, spotlighing, stargazing, foraging and lots more.

If this sounds interesting and you'd like to know more, contact us with your email or postal address and we'll send you out all the details.

http://www.csiro.au/events/NSWHelix--ci_locId-fffdb067d3604110VgnVCM100000c2709b82_.html

New Inventors Studio Audience

Start: 18 July 2008 12:30 pm

End: 18 July 2008 3:30 pm

Location

ABC Studio

700 Harris Street

Ultimo, Sydney NSW 2000

Australia

They say Australia has more inventors, innovators and designers per head of population than anywhere else in the world—and we are going to see some LIVE! Please join us at the ABC studios in Ultimo, Sydney to be the studio audience for the filming of The New Inventors in a fascinating search for Australia's most amazing inventions and trend-setting designs!

Limited to 30 places so get in fast.

Cost: Free.

http://www.csiro.au/events/NSWHelix--ci_locId-240e34ddf8719110VgnVCM100000c2709b82_.html

Young Tall Poppy Science Awards open

The Tall Poppy Campaign was established by the Australian Institute of Policy & Science to promote awareness of Australia's intellectual achievements. An important component of the Campaign is the Young Tall Poppy Science Awards, which recognise the achievements of outstanding young researchers in the sciences including physical, biomedical, applied sciences, engineering and technology.

Nominations open Thursday 5 June. Nominations close Friday 1 August 2008.
(Awards announced on Thursday 23 October).

For selection criteria visit <<http://www.tallpoppies.net.au/awards/2008>>

Australian Learning and Teaching Council awards for higher education open

The Australian Learning and Teaching Council (previously called the Carrick Institute for Learning and Teaching in Higher Education) offers a number of awards rewarding excellence in higher education teaching. They include awards for:

- programs that enhance learning: \$25,000 prize, nominations close Friday 11 July
- teaching excellence: \$25,000 prize, nominations close Friday 11 July.

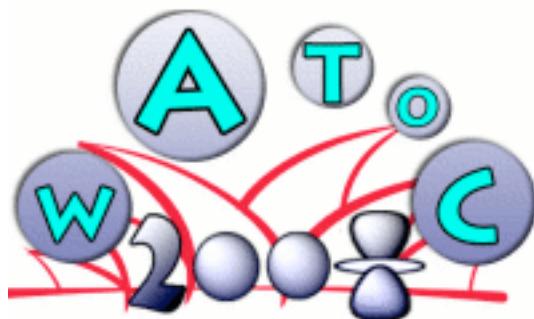
One of the recipients of the teaching award will receive the Prime Minister's award for the Australian university teacher of the year: \$50,000 prize.

For more information, see <<http://www.altc.edu.au/carrick/go/home/awards>>

RACI Office Closed – the next two weeks

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



The World Association of Theoretical and Computational Chemists (WATOC) is the major international organisation representing theoretical and computational chemists. The 2008 World Congress of WATOC, namely WATOC 2008, will be held in Sydney, Australia from September

14-19, 2008. Held every 3 years, the WATOC World Congresses represent the major worldwide event that brings together an international network of theoretical and computational chemists. These Congresses are the main international conferences in the burgeoning field of computational chemistry, and attract strong participation from government, industry and academia. <http://www.watoc2008.com/>

NSW RACI Organic Symposium 2008

Location: School of Chemistry, University of Sydney, NSW 2006 Date: Wednesday December 3rd

Watch this space in the coming weeks as more details come to hand!

NSW RACI Organic One Day Symposium 2008

<http://www.chem.unsw.edu.au/RACI/SIGS/organic.html>

Date: December 3rd
Venue: University of Sydney
Organisers: RACI NSW
Organic Chemistry Group & University of Sydney





23rd RACI Organic Division Conference, ORGANIC 08, Hobart, Tasmania 7 – 12 December 2008

Program highlights will include presentations by international plenary speakers (7 confirmed to date), the Birch Lecturer and other invited speakers and session speakers. Topics covered will include metal and organocatalysts, synthetic methodology, supramolecular chemistry and nanotechnology, natural products and total synthesis and drug design and synthesis.

Sessions will be run in parallel along with two poster presentations and a continuous trade display. For more information <http://www.organic08.org/>

Website of the Week

To whom does the world turn to when it has a question? Well it will come as no surprise to any of you that many turn to “the bible” that is **Wikipedia**. So what does this phenomena say we (as chemists) are all about. Why not read for yourselves?

What is a Chemist – according to Wiki

<http://en.wikipedia.org/wiki/Chemist>

RACI Electrochemistry Symposium:
New Materials and New Methods in Electrochemistry

Sponsored by MEP Instruments

- November 27-28, 2008
- University of New South Wales



Organizers:

- The Royal Australian Chemical Institute Incorporated; Electrochemistry Division
- University of New South Wales; School of Chemistry

<http://www.edaq.com/EDRACI/>

*Deadline for next weeks edition is 5pm **Thursday July 31**. We welcome all article suggestions and ideas*

Enquiries and Correspondence

General Enquiries

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UNSW, School of Chemistry
Tel : 61-2-9385-5384
Fax : 61-2-9385-6141
Email: justin.gooding@unsw.edu.au

Abstract Submission

Mr Leo Ming Hei Lai
UNSW, School of Chemistry
Tel : 61-2-9385-4295
Fax : 61-2-9385-6141
Email: z3099262@student.unsw.edu.au



The Royal Australian Chemical Institute Incorporated New South Wales Branch

School of Chemistry, UNSW, SYDNEY, 2052

Tel: (02) 9663 4960

Fax: (02) 9385 6141

Email: racinsw@chem.unsw.edu.au

ABN: 69 030 287 244

In Reg Number: A0040386D

Registration Form

Keep for tax purposes

RACI Electrochemistry Symposium:

New Materials and New Methods in Electrochemistry

Title: _____ Name: _____

Organisation: _____

Mailing Address: _____

Country: _____

Tel: _____ Fax: _____

Email: _____

Presentation Type:

Poster Oral Presentation Participant

Accommodation:

Barker Lodge New College Local Other

Date: From DD / MM / YYYY to DD / MM / YYYY

Payment:

RACI Member \$350 RACI Student \$200

Non-RACI Member \$500 Non-RACI Student \$300

Type: Visa MasterCard

Amount: \$ _____

Card Number: _____ Expiry Date: _____

Name: _____ Signature: _____

Cheque (Send via post)

Cheque payable to: The Royal Australian Chemical Institute (Electrochemistry Divisions)

Return via fax, email or post to RACI

16th Royal Australian Chemical Institute R & D Topics Conference



The RACI R&D Topics conference, initiated in 1992 by Professor Neil Barnett (School of Biological & Chemical Science, Deakin University), is based on a similar conference for postgraduate students held by the Royal Society of Chemistry (UK).

R&D Topics is unique in that it is a conference attended and organised by postgraduate students and early career researchers, with supervisors and companies welcome to attend. Previous conferences, hosted by various universities around Australia, including Flinders University (2007), Wollongong University (2006) Monash University (2005), University of Melbourne (2004) and the University of Western Sydney (2003), have registered over 100 delegates in the fields of analytical and environmental chemistry, with students highlighting their research through oral seminars and poster sessions. The long running status (now in its 16th year) of the R&D Topics is a tribute to the great success of this conference format, with many former students now attending the conference as supervisors.

This year it is being held again in NSW! Macquarie University Saturday, December 6 - Tuesday, December 9

The website is still under construction but is however still worth a look

<http://www.cbms.mq.edu.au/rdtopics/programme.html>

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>

THE ROYAL AUSTRALIAN CHEMICAL INSTITUTE INCORPORATED



NATURAL PRODUCTS CHEMISTRY GROUP

ANNUAL ONE-DAY SYMPOSIUM

Southern Cross University, Lismore, NSW 2480

Friday, 3rd October 2008

CALL FOR PAPERS AND POSTERS:

This is a call for abstracts for either 15 minute oral or poster presentations with a deadline for submissions of Monday 29th August 2008. Abstracts need to be in MS Word or rtf format, to be sent by e-mail as an attached file to: myrna.deseo@scu.edu.au. Please use the attached abstract template for further instructions on Abstract formatting.

As is our custom, students giving an oral presentation will have their registration fee waived.

The program commences at 9.00 am and finishes at 5.00 pm and will comprise the latest research updates on the chemistry and biology of natural products.

Further enquiries to:

Dr. Myrna A. Deseo

Ph +61-2 6622 3211

Email: myrna.deseo@scu.edu.au

Dr. Naresh Kumar

Ph +61-2 9385 4698

Email: N.Kumar@unsw.edu.au

A/Prof. Joanne Jamie

Ph +61-2 9850 8283

Email: joanne.jamie@mq.edu.au

REGISTRATION:

The RACI Natural Products Chemistry Group

Annual One-Day Symposium

Southern Cross University, Lismore campus, NSW

Friday, 3rd October 2008

Name:	Address:	
Email Address:		
Title:		
Name For Badge:		
Organisation:		
Phone Number:	Fax Number:	
I wish to present orally (circle) YES NO	I wish to present a poster (circle) YES NO	

Registration Fee (Includes lunch, morning and afternoon teas and the abstract booklet)

Send completed form and payment to:

Please check one box:

- | | |
|---|--|
| <input type="checkbox"/> \$50 (RACI member) | <input type="checkbox"/> \$60 (Non-member) |
| <input type="checkbox"/> \$25 (RACI student member) | <input type="checkbox"/> \$30 (Student non-member) |

Dr. Myrna A. Deseo

Centre for Phytochemistry and Pharmacology

Southern Cross University

P.O. Box 157, Lismore, NSW 2480

Email: myrna.deseo@scu.edu.au

Fax No.: +61-2-6622-3459

NB: The completed registration form must

be received by the organisers by fax,

email or post **NO LATER THAN C.O.B**

Friday, 26th September 2008.

Pay by:
 Cheque Money Order
Made payable to: RACI NSW Natural Products Group
Prices shown are for registration up to 5th September 2008.
After this date, registration costs are \$5.50 extra.

THE NEW 2008/2009 *entertainment* BOOKS ARE WORTH THEIR WEIGHT IN GOLD!



Purchase your brand new 2008/2009 Entertainment™ Book now to receive over \$15,000 in valuable offers, valid through 1 June, 2009. At the same time, you'll be helping community fund-raising!

The Entertainment™ Book is your guide to the best restaurants, hotel accommodation, attractions, sports and leisure activities... all with 25% to 50% off or 2-for-1 offers. Plus, My Bookings™... Compare rates, check availability and book your accommodation online. Here is a sample of the many well known businesses providing valuable offers in the new Sydney and Sydney North Entertainment™ Books...



Fine and Contemporary Dining	Restaurant and Café Dining		
Sydney edition (the best of the city, east, south and inner west)	Sydney North edition (the best of the north, upper and lower north shores, northern beaches and a selection of the city)	Sydney edition (the best of the city, east, south and inner west)	Sydney North edition (the best of the north, upper and lower north shores, northern beaches and a selection of the city)
<ul style="list-style-type: none"> • Cafe Sydney • Forty One Restaurant • Astral • La Sala • Manta • Wolfie's Grill • Assiette • Restaurant Sojourn • Kingsley's • Coast • Waterfront Restaurant • Ecco Ristorante • Da Gianni Trattoria • Caveau • Bayblu Seafood Restaurant • Bavarian Bier Café • Blue Ginger and many more... 	<ul style="list-style-type: none"> • Watermark Restaurant • The Bathers' Pavilion • Pilu at Freshwater • Milson's • Alchemy 731 • La Grillade • Terrace on Pittwater • Orso Bayside Restaurant • Berowra Waters Inn • MuMu Grill • Limani Seafood Restaurant • Beach Road • Banjo Paterson Cottage Restaurant • Nilgiri's • Bavarian Bier Café • Catalonia • The Ginger Room and many more... 	<ul style="list-style-type: none"> • Wagamama • Hog's Breath Café • Blackbird Café • Bite Me Burger Co. • The Barn Cafe & Grocery • Cine Restaurant and Bar • Löwenbräu Bier Hall • Café Monz • Mike's Grill and Bar • The Rocks Cafe • Encasa • Nikos • Cafe Bo Bo • Clovelly Hotel • Bay Tinh • il Goloso • Pancakes on The Rocks and many more... 	<ul style="list-style-type: none"> • PJ Gallagher's • Café Brisa • Wood and Stone • The Newport Arms • The Barn Cafe – Headland Park • Flying Fox Café • The Moody Chef • On Shore Café Brasserie • The Claypot • The Stoned Crow • Chilli Lime Too • Fink Chocolate Café • Basil and Mint • Brewhaha • Ironbark • Wok on Inn • Bar Asia and many more...

The following appear in both the Sydney and Sydney North editions

Informal Dining and Takeaway Restaurants	Arts, Sports and Attractions	Retail, Travel, Leisure and Accommodation
<ul style="list-style-type: none"> • McDonald's • Gloria Jean's Coffees • Hungry Jack's • Domino's Pizza • Oporto • Krispy Kreme • Subway • Pizza Hut • Ogalo Portuguese Chicken • McCafé • Kick Juice Bars and many more... 	<ul style="list-style-type: none"> • Greater Union Cinemas • Taronga Zoo • Sydney Aquarium • Hoyts Cinemas • Sydney Symphony • Luna Park • Sydney Wildlife World • Sydney Theatre Company • Sydney Tower Skywalk • Sydney Swans • The Australian Ballet and many more... 	<ul style="list-style-type: none"> • Hamilton Island • BreakFree, Mantra Resorts • Golden Door Health Retreats • Rydges Resorts • Avis/Budget/Europcar/Hertz • Movieworld, Sea World, Wet'n'Wild • Fountain Cosmetics • Vogue Magazines • Voyages Ayers Rock • Heron Island and many more...



WA
HAWAII



For a complete listing of participating businesses or more information about Entertainment™ Books for other cities, please visit www.entertainmentbook.com.au. Contact Edwina Hine NSW Branch Coordinator. RACINSW@chem.unsw.edu.au

Deadline for next weeks edition is 5pm **Thursday July 31**. We welcome all article suggestions and ideas

Important Dates in Chemistry's History July 11 -17

11

- b. 1811 **William Robert Grove** created forerunner of modern fuel cells ("gas voltaic battery"); first to demonstrate the thermal dissociation of molecules; crater on moon named after him.
- b. 1927 **Theodore Harold Maiman**, invented the first operable laser; **Ruby Laser Systems Laser**, Patent Number 3,353,115.

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- b. 1635 **Robert Hooke**, researcher on the theory of gases & combustion. for his law of elasticity (**Hooke's Law**). "the father of **microscopy**" — it was Hooke who coined the term "cell" to describe the basic unit of life assisted **Robert Boyle** and built the vacuum pumps used in Boyle's **gas law** experiments.
- b. 1810 **Henri V. Regnault**, researcher in thermometry, specific heats & expansion of gases; found carbon tetrachloride.
- b. 1813 **Claude Bernard** discovered glycogen (1855); researched the digestion of food and the formation of glycogen in the liver; demonstrated that the digestion of glycogen begins in the stomach and continues in the intestine.
- b. 1854 **George Eastman** invented Kodak & transparent film, Brownie camera, 1888, daylight loading film, 1891, & color film, 1928; manufacturer.
- b. 1861 **George Washington Carver** isolated & synthesized over 400 products from peanuts & sweet potatoes.
- b. 1928 **Elias J. Corey**, researcher in organic chemical synthesis & computers in chemistry: Nobel Prize in Chemistry (1990) for his development of the theory and methodology of organic synthesis.
 - Launching of first atomic powered merchant ship, 1959.
 - Discovery of xenon (Xe, 54) by William Ramsay & Morris W. Travers, 1898.

13

- b. 1527 **John Dee**, English alchemist.
- b. 1826 **Stanislao Cannizzaro** convinced chemists of Avogadro's hypothesis; researcher in organic chemistry producing benzyl alcohol & benzoic acid from benzaldehyde.

14

- b. 1800 **Jean-Baptiste A. Dumas**, researcher on organic compounds; isolated methanol, 1834, & anthracene with Peligot, 1831, from coal tar; researcher on the composition of water & vapor density; made accurate measurement of nitrogen in compounds (Dumas Method).
- b. 1863 **Paul Walden**, researcher on electrical conductivity & electrolytic dissociation; discovered Walden inversion; Walden's rule relates the conductivity and viscosity of nonaqueous solutions. Died 1/22/1957.
- b. 1921 **Geoffrey Wilkinson** research in transition metal complexes such as carbonyls and olefin complexes, particularly compounds of ruthenium (Ru, 44), rhodium (Rh, 45), & rhenium (Re, 75), in compounds of unsaturated hydrocarbons & with metals to hydrogen bonds; metallocenes, complex hydrides, and mechanism of homogeneous catalysis. Nobel Prize in Chemistry (1973) with E. O. Fischer for their pioneering work on chemistry of organometallic "sandwich" compounds.

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- b. 1887 **Edward R. Weidlein** invented hydrometallurgical processes for treatment of low-grade copper ores.
- b. 1903 **Jasper H. Kane** developed mass production processes for citric acid and antibiotics.
- b. 1915 **Albert Ghiorso**, researcher in transuranic elements & codiscovered americium (Am, 95), berkelium (Bk, 97), californium (Cf, 98), curium (Cm, 96), einsteinium (Es, 99), fermium (Fm, 100), hahnium (Ha, 105), lawrencium (Lr, 103), mendelevium (Md, 101), nobelium (No, 102), rutherfordium (Rf, 105), & seaborgium (Sg, 106).
- b. 1921 **Robert B. Merrifield** developed solid-phase peptide synthesis; Nobel Prize (1984) for his development of methodology for chemical synthesis on a solid matrix.

16

- Explosion of first atomic bomb at Trinity Site, Alamogordo Air Force Base, New Mexico, 1945.

17

- b. 1827 **Frederick Augustus Abel**, chemist to the war department and ordnance committees in England (1854-1888); invented (with Sir James Dewar) the smokeless explosive known as cordite; pioneered a new way of manufacturing gun-cotton (a nitrated form of nitrocellulose); invented the Abel tester, which determines the flash-point of petroleum.

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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