



WEEKLY “E” NEWS- from the RACI NSW 2nd May 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.

Western Sydney Section –RACI Seminar : Sustainability- some chemical solutions for a tricky problem,
Speaker Professor Thomas Maschmeyer **When:** Tuesday 27th May 2008 **Venue:** University of Western Sydney
Campbelltown Campus (CR 5, Building 22)

IChemE Symposium on ‘Sustainable energy and water’ to take place on June 4, 2008 in the Theatre,
NSW Parliament House.

New inquiry announced (*yes another one!!!*) This week the House of Representatives Liaison & Projects Office
announced an inquiry detailing **Research training in Australia**

Invitation for the Inaugural Australasian Crystallographic School: July 6-12, 2008, Melbourne

A postdoctoral fellow position is available at the University of New South Wales in a combined project with
the *Optical Fibre Technology Centre* at Sydney University.

National Awareness Campaign Chemical & Scientific Industries: Free Seminar to be held Wednesday 7th May
2008, 10:00am PARRAMATTA LEAGUES CLUB for members of the Scientific community to be briefed on the
latest trends and risks in regard to the diversion of chemicals and equipment into illicit drug manufacture as well as
promote the Industry Code of Practice for Supply Diversion into Illicit Drug Manufacture. This forum will also serve
to advise all industry members of upcoming changes to regulations and emerging trends within their industry sectors.
Please see the full story page 11 of the newsletter for more details.

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.

*Deadline for next weeks edition is 12pm **Friday May 9th.** We welcome all article suggestions and ideas*

RACI Conference: 3D at the Cove- Drug Discovery & Development, 13-17 July at Couran Cove Island Resort, Queensland

Advances in Heterocyclic Chemistry and Medicinal Chemistry: One-Day Halpern Symposium in Honour of Prof. John Bremner University of Wollongong Thursday 10th July 2008

Registrations are still open for the **RACI Pharmaceutical Science Group – NSW NIR INDUSTRY**

UPDATE May 14th 2008 North Ryde RSL - Magdala Rd North Ryde

Events coming up this week: Branch Committee Meeting Wednesday 7th May USyd Pharmacy Common Room 6pm start.

THE PRIME MINISTER'S PRIZES FOR SCIENCE NOMINATIONS The call for nominations for the 2008 Prime Minister's Prizes for Science close on **Friday 9 May 2008** 5.00pm AEST. Eligibility criteria and selection information is available on <http://www.dest.gov.au/scienceprize>

Website of the Week: This week we look at the Science Week **See:** <http://www.scienceweek.info.au>

Important Dates in Chemistry's History May 2-8

Please scroll down for further details.....

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RACI WESTERN SYDNEY SECTION Sustainability – Some Chemical Solutions for a Tricky Problem

When: Tuesday 27th May 2008
Venue: University of Western Sydney
Campbelltown Campus (CR 5, Building 22)

Programme:

6.00 Wine & Cheese

6.30 Special Guest Speaker: **Professor Thomas Maschmeyer**
(University of Sydney)

The world is standing at the technological threshold of a revolution that is driven by the need for truly sustainable (industrial) processes, both in the production of chemicals as well as in the generation of fuels and power. At current rates of resource usage, if a world population were to operate with Australian standards of living, it would require between 4 – 6 planets. In addition, concomitant greenhouse gas emissions would have a dramatic impact on the world's climate. This talk will outline how one might be able to address some of the basic problems associated with these issues from a chemical perspective. The talk will not only be directed at a general audience and canvas aspects of 'the bigger picture', but it will also cover very recent research results from our group in the area of photocatalytic splitting of water with sunlight to create hydrogen, 200 litres/(hour.m²).

Everyone is welcome to join the speaker and committee for dinner at a local restaurant after the presentation at their own expense.

For additional information please contact:

Dr Robert Kaziro (4620 3207); Email: r.kaziro@uws.edu.au

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Shared Challenges, Shared Solutions

Sustainable energy and water

June 4, 2008

The Theatrette
NSW Parliament House
Macquarie Street, Sydney

“IChemE’s governing Council identified a need for greater clarity in relation to the technical positioning of the Institution on key issues of global concern. In 2005, a task force... identified a set of priority topics” (A Roadmap for the 21st Century Chemical Engineering, May 2007, IChemE)

The Chemical and Biomolecular Engineering Foundation of The University of Sydney, wishes to join the Institution of Chemical Engineers – IChemE – in developing further the topics of Energy and Water. These topics were allocated to IChemE in Australia with a view to preparing strategic position papers which will provide directions and options to governments and industry in the global reality of today’s world.

You are invited to participate in the symposium on ‘Sustainable energy and water’ to take place on June 4, 2008 in the Theatrette, NSW Parliament House. The Symposium is hosted by the Hon Verity Firth MP, NSW Minister for Climate Change and the Environment. Registration will commence at 8.00 am, with the symposium opening at 8.30 am, and concluding at 1.00 pm, to be followed by lunch in The Stranger’s Dining Room at Parliament House.

Speakers will address the topics such as ‘Insight into the energy problem’, ‘Sustainable energy supply’, ‘Sustainable energy demand’, ‘Implications – urban water supply in an energy constrained world’, ‘Insight into the water problem’.

If you are interested in receiving more information on the program and costs, and may be interested in attending, please return the following form (see next page) with your details to: Fax 02 9351 2854



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Shared Challenges, Shared Solutions
Sustainable energy and water

June 4, 2008

The Theatrette
NSW Parliament House
Macquarie Street, Sydney

FAX TO: Chemical and Biomolecular Engineering Foundation & IChemE
ATTN: Skender Bregu
FAX No.: 02 9351 2854

I am interested in receiving more information on the IChemE/Foundation Symposium program and relevant costs. I am considering attending on the day.

Name:

Position:

Company:

Address:

.....

.....

Tel.:**Fax:****Mobile:**

Email:

For more information please do not hesitate to contact Skender Bregu
on 02 9351 5284, or by email s.bregu@usyd.edu.au.

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Issued by: House of Representatives Liaison & Projects Office, Wednesday, 30 April 2008

New inquiry announced (yes another one!!!)

Research training in Australia

The House of Representatives Industry, Science and Innovation Committee is to conduct an inquiry into the contribution that Australian universities make to Australian research training, and the challenges those universities face in recruiting, training and retaining quality research staff.

Committee Chair Maria Vamvakinou welcomed the referral of this inquiry by the Minister for Innovation, Industry, Science and Research, Senator Kim Carr.

“Australian universities play a key role in driving innovation through the research projects they undertake. Finding creative solutions to problems, advancing our technological and productive capacities and generating new and innovative ideas are crucial across all disciplinary fields. But attracting new graduates to research, and keeping hold of our best and brightest researchers here in Australia, has become a challenge for many Australian universities”, Ms Vamvakinou said.

“This inquiry focuses on current university research training programs and some of the challenges universities face in this area”.

“This includes the adequacy and effectiveness of current research training schemes, the factors that determine whether new graduates pursue a career in research, and the opportunities for career advancement for research graduates and staff”.

The Minister for Innovation, Industry, Science and Research requested that the committee inquire into and report on Australian research training, with particular reference to:

- The contribution of research training programs to Australia’s competitiveness in the areas of science, research and innovation;
- The effectiveness of current Commonwealth research training schemes;
- The adequacy of current research training schemes to support Australia’s anticipated future requirements for tertiary-qualified professionals in a wide range of disciplines;
- Adequacy of training and support available to research graduate students in Australia;
- Factors for graduates that determine pursuit of a career in research;
- Opportunities for career advancement for research graduates and staff;
- Factors determining pursuit of research opportunities overseas;
- Australia’s ability to compete internationally for high quality researchers; and
- Whether Australia’s academic workforce is ageing, and its impact on research capacity.

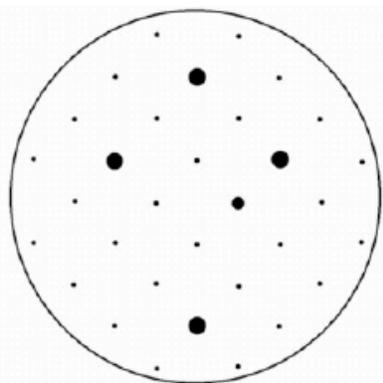
Interested persons and organisations are invited to make written submissions to the inquiry by **Friday 30 May 2008**. Further details, including the full terms of reference, membership of the committee and advice on making submissions can be obtained on the committee’s website at www.aph.gov.au/isi.

Issued by:

Liaison & Projects Office, House of Representatives

Tel: (02) 6277 2063 w

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AUSTRALASIAN CRYSTALLOGRAPHY SCHOOL

Applications are now invited for the Inaugural Australasian Crystallographic School:
July 6-12, 2008
Melbourne

The School will cover fundamental and applied aspects of crystallography, and is open to postgraduate students and early career postdocs working in the areas of both chemical and physical crystallography and protein crystallography.

CALL FOR APPLICATIONS

Numbers are very limited, and applicants will be informed of acceptance or otherwise shortly after applications close. Applicants should complete the online application form at the address below, and ensure that their supervisor forwards a letter of support to the organizers by the closing date.

Closing date: Friday May 9.

COSTS

Initial registration costs will be \$1000. This will cover the course, meals, accommodation and course material. Students may be eligible for a partial refund upon completion. SCANZ members will also be eligible for a \$100 discount, and students may apply for travel support from AINSE (further details available upon acceptance). Registration will be required within one week of notification of acceptance to the School.

FURTHER DETAILS

Dr. Stuart Batten, School of Chemistry, Monash University 3800.

Tel. (03) 9905 4606.

Email: stuart.batten@sci.monash.edu.au

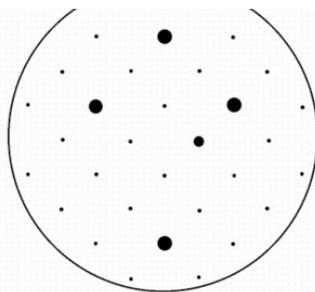
A/Prof. Matthew Wilce, Biochemistry & Molecular Biology, Monash University 3800.

Tel. (03) 9905 1086.

Email: matthew.wilce@med.monash.edu.au

<http://www.monash.edu.au/cmo/crystallographyworkshop/>

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Program

Sunday 6 July - Introduction

2:00-3:30 Arrival and registration, Coffee
3:30-3:45 Welcome – House Keeping
3:45-4:20 Overview of Crystallography, A road map
4:30-6:00 Introduction to diffraction I
Evening Laser Show - Diffraction

Monday 7 July - Diffraction

9:00-10:30 Introduction to diffraction II
11:00-12:30 Introduction to diffraction III
2:00-3:30 Introduction to Cells and Symmetry I
4:00-5:50 Introduction to Cells and Symmetry II
5:00-6:00 Introduction to Indexing and Data Reduction I
Evening Student talks I

Tuesday 8 July - Data

9:00 - 9:50 Introduction to Indexing and Data Reduction II and Unit Cells and Space Groups
9:50 - 10:45 Introduction to Indexing and Data Reduction III and Data Collection
11:00 – 12:00 Parallel Sessions: MOSFLM/SCALA (Protein) Space Groups (for Chem. and Phys.)
12:00 – 1:00 HKL2000 and Data Statistics
2:00-5:50 Hands on Data Processing session
Evening I Overview of Synchrotron Radiation
Evening II Student Talks II

Wednesday 9 July - Phasing

8:00 – 8:50 Fourier, Structure Factors and the Phase Problem
8:50 – 9:40 Patterson Maps
9:40 – 10:30 Twinning
11:00-11:50 Parallel Sessions: Protein Phasing Methods and Direct Methods (Chem & Phys)
12:00-12:50 Parallel Sessions: Protein - MIR Refinement Overview (Chem & Phys)
2:00-5:50 Workshops: Protein Phasing and Chem & Phys Refinement- Lectures + Exercises
Evening Refinement

Thursday 10 July – Phasing (Protein) and Refinement (Chem&Phys)

9:00-9:50 Anomalous Dispersion
10:00-10:40 SAD/MAD Phasing (Protein) Refinement (Chem & Phys)
11:00-12:50 SHELX (Protein) Further Refinement (Chem & Phys)
2:00-5:50 Phasing and Refinement Workshops
Evening

Friday 11 July - Molecular Replacement (Protein) Structure Reporting and Validation (Chem & Phys)

9:00-9:50 Molecular Replacement Theory (Protein) Reporting Structures - Derivation of Results, Errors and Modelling (Chem& Phys)
9:50-10:40 Finding a Search Model (Protein) Reporting Structures Cont. (Chem & Phys)
11:00-11:50 Molecular Replacement Programs (Protein) Structure Validation (Chem & Phys)
11:50-12:50 Phase Improvement and Extension (Protein) Comparison and Significance (C&P)
2:00-5:50 Phasing Workshop III Results and Presentation Workshop (Chem & Phys)

Saturday 12 July Rounding it out...

9:00-9:50 Refinement (Protein) Databases (Chemical and Physical)
9:50-10:40 Model Building (Protein) Introduction to Neutron Diffraction (Chem and Phys)
11:00-11:50 More Model Building (Protein) Introduction to Powder Diffraction (Chem & Phys)
11:50 – 12:50 Model Validation (Protein) Further Powder Diffraction (Chem & Phys)
2:00 -3:30pm? Model Building and Validation Workshop (Protein) Neutron & Powder Workshop



Postdoctoral Fellow

School of Chemical Sciences and Engineering in cooperation with the School of Electrical Engineering and Telecommunications



FACULTY OF ENGINEERING

FIXED TERM: - Salary: \$62,347 – \$66,686 per year (plus up to 17% employer superannuation plus leave loading.)

Web Links

<http://www.ee.unsw.edu.au/~pocg>

POSITION DESCRIPTION

JOB PURPOSE

A postdoctoral fellow position is available at the University of New South Wales in a combined project with the *Optical Fibre Technology Centre* at Sydney University. The focus of the research is on the synthesis of novel classes of organic materials targeting optical fibres and organic thin film displays.

MAIN DUTIES

A Level A research-only academic is expected to contribute towards the research effort of the institution and to develop his or her research expertise through the pursuit of defined projects relevant to the particular field of research. More specifically, the main duties would include:

- Conduct research as a member of the research team led by A/Prof F. Ladouceur;
- Contribute to the production of conference and journal papers from the research;
- Experimental design and operation of advanced laboratory and technical equipment or conduct of advanced research procedures;
- Attendance at meetings associated with research or the work of the organisational unit to which the research is connected and/or at departmental and/or faculty meetings and/or membership of a limited number of committees;
- Advice within the field of the staff member's research to post-graduate students;
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that their actions or omissions do not impact on the health and safety of others in the university.

Skill Base

A Level A research-only academic will normally have completed four years of tertiary study in the relevant discipline and/or have equivalent qualifications and/or professional experience. In determining experience relative to qualifications, regard will be given to experience in research, experience outside tertiary education, creative achievement, professional contributions and/or contributions to technical achievement.

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ENVIRONMENT

The project is funded by the ARC (Discovery Program) and supported by various industry partners so that excellent research and laboratory facilities are available. This specific part of the envisioned research project will be supported by at least one other full-time researcher, with support from several international parties involved in guiding the application context and specifications.

Reporting Relationships:

The successful applicant will report to A/Prof François Ladouceur from the School of Electrical Engineering and Telecommunications, who will act as the project coordinator at UNSW.

PRINCIPAL ACCOUNTABILITIES

- To conduct/supervise the synthesis and characterisation of new classes of organic photonic materials;
- To contribute to the overall design of photonics devices based on these new materials;
- To stay abreast of current material trends in optical fibres and display technologies;
- To provide technical and administrative support for the group's laboratories;
- To conduct research under limited supervision either as a member of a team or, where appropriate, independently;
- To contribute to the production of conference and seminar papers and publications from that research;
- Involvement in professional activities including, subject to availability of funds, attendance at conferences and seminars in the field of expertise;
- Limited administrative functions primarily connected with the area of research;

SELECTION CRITERIA

The successful applicant will have:

- PhD in organic chemistry or material science (or equivalent);
- In-depth understanding of polymer synthesis and characterisation;
- Familiar with a variety of polymerisation techniques;
- Ability to research independently and capture IP;
- Publications in high impact journals;
- Strong communication and interpersonal skills and an ability to work in interdisciplinary teams;
- Ability to interact with industry and to respond to industry requirements;
- The ability to attract industry funding or competitive grant funding;
- Knowledge of OHS responsibilities and commitment to attending relevant OHS training;

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)



National Awareness Campaign Chemical & Scientific Industries

The Australian Crime Commission (ACC), Australian Government Department of the Attorney General (AGD), Plastics and Chemicals Industries Association (PACIA) and Science Industry Australia (SIA) would like to extend this invitation to you and staff from your organisation to attend a very important industry forum as part of the National Awareness Campaign for the Chemical and Scientific sectors.

This free forum will provide an opportunity for Government, Law Enforcement and Industry to provide you with the latest trends and risks in regard to the diversion of chemicals and equipment into illicit drug manufacture as well as promote the Industry Code of Practice for Supply Diversion into Illicit Drug Manufacture. This forum will also serve to advise all industry members of upcoming changes to regulations and emerging trends within these industry sectors, attendance is strongly recommended.

Forum Venue:

PARRAMATTA LEAGUES CLUB

Wentworth Room

13 – 15 O'Connell Street Parramatta NSW

Wednesday 7th May 2008

Commencing at 10:00am

Ample Car parking is available at no cost and full refreshments are provided.

RSVPs and Enquiries to: paul.newell@crimemission.gov.au

Phone: (02) 9373 2526

Fax: (02) 9373 2599

Post: GPO Box 5260, Sydney NSW 2001



Plastics and Chemicals Industries Association



Australian Government

Attorney-General's Department



Science Industry Australia

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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 <i>(the best of the city, east, south and inner west)</i>	Sydney North edition <i>(the best of the north, upper and lower north shores, northern beaches and a selection of the city)</i>	Sydney edition <i>(the best of the city, east, south and inner west)</i>	Sydney North edition <i>(the best of the north, upper and lower north shores, northern beaches and a selection of the city)</i>
<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... 	



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The RACI 3D at the Cove- Drug Discovery & Development, 13-17 July at Couran Cove Island Resort, Queensland

Please register online at <http://www.3datthecove.org/?page=8>



It is with great pleasure that I invite you to join us at '3D at the Cove', the 2008 follow-on meeting from the very successful 'Drug Design Amongst the Vines 2006'. This drug discovery and development conference is organised by the Biomolecular Chemistry Division of the Royal Australian Chemical Institute and held at Couran Cove Resort from 13 July to 17 July 2008.

At this meeting you will be able to hear the latest developments on all medicinal chemistry topics, such as drug discovery targets and modes of action (GPCRs, Kinases, Ion Channels and proteases), indications (antibacterials, pain, Oncology, Inflammation, CNS disorders), as well as a dedicated session on the Australian Biotech Industry.

It is especially exciting to have this meeting on one of Queensland's secluded Island resorts, allowing ample opportunity to interact and really get to know all delegates (this year limited to 160) and plenary speakers. It is the quality of the talks and the warm interaction that make these meetings a very memorable experience. Couran Cove offers the best Australian beaches and rainforest in our Sunshine state and will provide a wonderful setting for our scientific meeting.



*Wim Meutermans
Conference Chair, Biomolecular
Chemistry Division*

ADVANCES IN HETEROCYCLIC CHEMISTRY AND MEDICINAL CHEMISTRY



**ONE-DAY HALPERN SYMPOSIUM IN HONOUR OF PROF. JOHN BREMNER UNIVERSITY OF WOLLONGONG
THURSDAY 10TH JULY 2008
MCKINNON BUILDING, 67.104
8.30 A.M. REGISTRATION – 9.00 A.M. START**

Prof. John Bremner has recently retired from his academic position at the University of Wollongong. To celebrate his outstanding career as a researcher and teacher the School of Chemistry is organizing a one-day symposium on Thursday, 10th July 2008. The theme of the symposium will be on heterocyclic and medicinal chemistry, the two topics of John's major research interests.

The following eminent researchers have accepted invitations to speak.

Dr Jonathan Baell (The Walter and Eliza Hall Institute of Medical Research)
Prof. Martin Banwell (Australian National University)
Prof. David Black (University of NSW)
Prof. Bill Denny (University of Auckland)
Prof. Tim Gallagher (University of Bristol)
Dr Kevin Winzenberg (CSIRO Molecular and Health Technologies)
Prof. Brian Yates (University of Tasmania)

After the conclusion of the one-day symposium activities John Bremner will be presenting the Halpern Lecture at 6.00 pm followed by dinner at a local restaurant. The members of the organizing committee would like to invite you and your colleagues and research students to participate in this exciting day of science, to celebrate with John his long and distinguished research career and his contributions to Chemistry, nationally and internationally.

Please e-mail or fax your registration details (see below) to Louisa Willdin at louisa@uow.edu.au [fax (02) 4221 4287] before 10th May 2008.

If you need to book your accommodation, you may find this website useful. www.tourismwollongong.com.au

Name:

Affiliation:

e-mail:

I will attend:

1. One -Day Symposium in Honour of Prof. John Bremner

Staff, \$55

Student, free

2. The Halpern Lecture (free lecture)

3. Dinner at a local restaurant (cost not included in registration fees)

Payment: Cheque Bankcard MasterCard Visa

Cardholder name:

Card Number:

Expiry Date:

Signature of cardholder:

Cheques should be made payable to The School of Chemistry, University of Wollongong. Please e-mail or fax your registration details to Louisa Willdin at louisa@uow.edu.au [fax (02) 4221 4287] before 10th May 2008.

RACI Pharmaceutical Science Group - NSW

NIR INDUSTRY UPDATE

Wednesday May 14, 2008
North Ryde RSL - Magdala Rd North Ryde

NIR is currently used in a range of industries providing enormous time and cost saving benefits for each company. The Pharmaceutical industry in Australia is slowly implementing NIR as process analytical technology (PAT) and achieving similar benefits.

But why are there only a hand full of companies, at this stage, progressing and enjoying the benefits?
Is it the complexity and the unknown of Near Infrared Spectroscopy?
Is it a lack of knowledge, resources or funding?

The benefits of implementing and utilising NIR to its full capacity will be discussed in this seminar and would be of interest to Manufacturing, R&D, Regulatory, Validation and Quality Assurance

PROGRAM

12.30 - 1.15	Registration
1.15 – 1.30	Introduction
1.30 – 2.15	NIR Spectroscopy Applied to the Pharmaceutical Industry NIR Instrumentation Overview Phil Clancy -NIR Technology Systems
2.15 – 2.45	Regulatory Acceptance of NIR Applications in the Pharmaceutical Industry Richard Streamer Industrial Applications Manager- FOSS Pacific
2.45 – 3.15	TGA's Approach to NIR as a Test Method for Raw Materials and Finished Products. Dr Larry Kelly - Director TGA Laboratories
3.15 – 3.45	Afternoon Tea
3.45 – 4:15	An Overview of PAT from a Regulator's Perspective TGA-speaker to be advised
4.15 – 4.45	NIR Case Study Thilini Anandagoda-Pfizer Australia
4.45 – 5.15	NIR Applications in the Food and Agricultural Industries Dr Ian Wesley and Professor Brian Osborne - BRI Research PL
5.30	Questions / Discussion
5:45	Drinks and dinner

Registration: see next page

RACI Pharmaceutical Science Group – NSW

NIR INDUSTRY UPDATE May 14th 2008 North Ryde RSL - Magdala Rd North Ryde

**Enquiries for Payment/Registrations Edwina Hine: 02 9663 4960 Fax: 02 9385 6141. Or
racinsw@chem.unsw.edu.au**

For further information regarding the seminar, please contact Colleen Wood at c.wood@inovapharma.com

GST Inclusive **\$110.00** RACI Members
GST Inclusive **\$145.00** Non RACI Members
Cost includes both Seminar and Dinner

Payment Options – Cheques are preferred, Registrations close 7 May 2008

TAX Invoice/Receipt ABN: 69 030 287 244

Title	Print First Name	Print Surname	RACI Member No.	Print Organisation ----- Print E-mail Address & Phone Number

Cheque Bankcard MasterCard Visa AMX

Cardholder Name: _____

Card Number: _____

Expiry Date: ____/____/____ Signature of cardholder: _____

Or

Please forward your cheque in Australian Dollars payable to **RACI**, along with this completed form to RACI (NSW), School of Chemistry UNSW Sydney 2052.

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Events coming up this week

- Branch Committee Meeting Wednesday 7th May USyd Pharmacy Common Room 6pm start.

THE PRIME MINISTER'S PRIZES FOR SCIENCE NOMINATIONS

The call for nominations for the 2008 Prime Minister's Prizes for Science close on **Friday 9 May 2008** 5.00pm AEST. Eligibility criteria and selection information is available on <http://www.dest.gov.au/scienceprize>

The major Prize, the Prime Minister's Prize for Science, is one of the nation's most highly-regarded awards and the premier national award for scientific achievement. It is awarded for an outstanding specific achievement or series of related achievements in any area of science advancing human welfare or benefiting society, and has been awarded previously to such luminaries of Australian science as Frank Fenner, Donald Metcalf, Jacques Miller and Graeme Clark.

The Prime Minister's Prizes for Excellence in Science Teaching in Primary and Secondary Schools were introduced in 2002, to honour our inspirational science teachers. Many of today's most prominent Australian scientists have credited their teachers with generating the interest and enthusiasm for science that they have carried with them throughout their subsequent careers.

Website of the Week

This is a new section of the newsletter where we will review a useful or interesting website that one of our members will have recommended. *(Opinions expressed in this article are not those of the RACI as a whole, rather the author of the article)*

This week we look at

Science Week

See: <http://www.scienceweek.info.au/>

Over the coming weeks you will be hearing more about the NSW RACI plans for Science Week. Many organizations will be taking part in this great event- why not check out the site

Edwina Hine *(NSW Branch Coordinator)*

*Deadline for next weeks edition is 12pm **Friday May 9th**. We welcome all article suggestions and ideas*

Important Dates in Chemistry's History May 2-8

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b. 1802 Heinrich Gustav Magnus, a German chemist and physicist who discovered the Magnus effect (the lift force produced by a rotating cylinder which, for example, gives the curve to a curve ball): the first platino-ammonium compounds; absorption of gases by blood, expansion of gases when heated, vapor pressures of water and various solutions, electrolysis, induced and thermoelectric currents, optics, magnetism and hydrodynamics; discovered also sulfovinic, ethionic, and isethionic acids, and (with Ammermüller) periodic acid; investigated the diminution in density produced in garnet and vesuvianite by melting; and studied the property inherent in the blood of absorbing carbonic acid and oxygen (founding thereon the theory of the absorption of the blood).

b. 1876 Austin McD. Patterson, leader in the field of chemical nomenclature.

b. 1922 George Claude Pimentel, researcher in the development of chemical lasers, matrix isolation techniques and rapid scan infrared spectroscopy.

➤ BF Goodrich Co. incorporated, 1912.

➤ Pennsylvania and Lehig Zinc Company was incorporated, 1855.

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b. 1852 Frank A. Gooch, developed filter crucible, electrolytic estimations of metals, & distillation for estimating boric acid.

b. 1895 Herman F. Mark, "Father of polymer chemistry"; developed process for production of styrene from ethylbenzene.

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b. 1777 Louis J. Thenard discovered hydrogen peroxide & Thenard's blue used in coloring porcelain; showed that caustic soda & potash contained hydrogen & oxygen; researcher with chlorine & alkali metals; discovered potassium & sodium peroxides.

b. 1844 Wilbur O. Atwater, one of the inventors of Atwater-Rosa-Benedict respiration calorimeter; established the first agricultural experimental station in the United States at Wesleyan College; determined the chemical composition and nutritive values of fish and animal tissues.

b. 1876 Arthur A. Blanchard, researcher on metal carbonyls & other inorganic compounds.

➤ Acetylene made by T. L. Willson of Spray, SC, 1892.

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b. 1811 John W. Draper, pioneer in photography; improved on Daguerre's process, first ACS president.

➤ Louis Pasteur tests inoculations against anthrax from attenuated bacilli on 24 sheep and other animals, 1881.

➤ Proctor & Gamble Co. incorporated, 1905.

➤ Albert Ghiorso, et al., announced the discovery of nobelium (No. 102) based on work done at University of California, Berkeley, 1958.

➤ One of the most cited papers "The first practical method for asymmetric epoxidation" by T. Katsuki and E. B. Sharpless (*J. Am. Chem. Soc.*, **1980**, *102*, 5974-5976) was received, 1980.

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b. 1635 Johann Joachim Becher, phlogiston theorist; considered matter made of four principles: water and three "earths", vitreous, combustible, and mercurial.

b. 1742 Jean Senebier showed that green plants in light converted 'fixed air' (carbon dioxide) to 'dephlogisticated air' (oxygen).

b. 1859 Julius B. Cohen, researcher on the laws of aromatic substitutions & optical activity.

b. 1871 F. Victor Grignard developed magnesium reagent used in organic chemistry; Nobel Prize (1912) for the discovery of the so-called Grignard reagent, which in recent years has greatly advanced the progress of organic chemistry; shared the prize with Paul Sabatier who received it because for his method of hydrogenating organic compounds in the presence of finely disintegrated metals whereby the progress of organic chemistry has been greatly advanced in recent years.

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b. 1871 Richard B. Moore advocated helium for balloons & dirigibles; supervised production of radium salts in US.

b. 1909 Edwin H. Land developed a light polarizing material called Polaroid and color photography system; invented Polaroid Land camera; founded Polaroid Corporation.

b. 1939 Sid Altman proved that ribonucleic acid (RNA) can act as catalyst in cell; Nobel Prize (1989) with Thomas R. Cech for their discovery of catalytic properties of RNA.

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b. 1873 Nevil V. Sidgwick, researcher on molecular structure & theory of valency; bonding in coordination compounds; investigated phase equilibria and the solubility of organic acids and bases.

b. 1855 Bohuslav Brauner, researcher in the chemistry of tellurium & the rare earths; predicted the existence of element No. 61 [Pm].

Ref: Monthly Historical Events In Chemistry by Leopold May, The Catholic University of America

<http://facultv.cua.edu/mav/Chemistrycalendar.htm>