1. Chemistry People in the News

Congratulations to:

- **Radha Maganti**, who has been awarded the degree of Doctor of Philosophy for her thesis, *Organotrifluoroborate Salts*.

- **Satvasheel Powar**, who has been awarded the degree of Doctor of Philosophy for his thesis, *Advancing the performance of photocathode dye-sensitized solar cells for their application in tandem solar cells*.

- **Rini Subagyono**, who, at the 21st European Biomass Conference (Copenhagen, June 2013), PhD received an award in recognition of her high level of achievement and contribution to her field of research. The award was made for her paper entitled: *Biofuel production from algae, wood waste and grape marc: a comparative study*. (See: [www.conference-biomass.com/EU-BC-E-Student-Awards.1848.0.html](http://www.conference-biomass.com/EU-BC-E-Student-Awards.1848.0.html))

- **Simon Bonyhady**, who has received an Australian American Association Fellowship to work at Yale.

- **Donna Whelan** and **Yada Nolvachai**, who were the School of Chemistry’s winners of the 3 minute thesis competition.

- **Dr Brendan Wilkinson** for his successful application in the 2013 Faculty of Science – Monash Technology Research Platforms Access Voucher Scheme.

- **Dr Chris Thompson**, and team members Gerry Rayner, Theo Hughes and Kate Charlton, who were awarded a Dean's Excellence in Teaching Award, for their team nomination titled "IDEA: Inquiry, Design, Explore, Answer".

- **Dr David Lupton** who was Guest Editor of the Australian Journal of Chemistry for SynthCon2, a forum for Australian organic chemists developed by David. This Research Front presents a taste of the chemistry from the meeting held in April in the Yarra Valley.
• **Dr Stuart Langley**, whose communication, “A \(\text{Cr}^{\text{III}}_2\text{Dy}^{\text{III}}_2\) single-molecule magnet: Enhancing the blocking temperature via 3d-magnetic exchange” was chosen by the editor and reviewers of *Angewandte Chemie International Edition* as a ‘highly important paper’.

• **Prof Stuart Batten and Dr Will Gee**, who had the 1000\(^{\text{th}}\) paper from the Australian Synchrotron (see details in Events and Outcomes below).

*Welcome to the School:*

- **Dr Haitao Li**, Research Fellow with Prof Doug MacFarlane
- **Dr Katarzyna Marzec**, Visitor with Dr Bayden Wood
- **Dr Mathias Wiechen**, Visitor with Prof Leone Spiccia
- **Dr Andrew Hudson**, Visitor with Dr Bayden Wood
- **Dr Anthony O’Mullane**, Visitor with A/Prof Lisa Martin
- **Dr Junjie Liao**, Visitor with Prof Alan Chaffee
- **Dr Nick Gathergood**, Visitor with Prof Steven Langford
- **A/Prof Karen Wonrath**, Visitor with Emeritus Prof Alan Bond
- **Adjunct Prof Jarem Garcia**, Visitor with Emeritus Prof Alan Bond
- **Dr Jomana Elaridi**, Visitor with A/Prof Andrea Robinson
- **Mark Sullivan**, Visitor with Prof Phil Andrews
- **Gaetan Girard**, Visitor with Prof Doug MacFarlane
- **David Guaita**, Visitor with Dr Bayden Wood
- **Xiao Wong**, Visitor with Prof Phil Marriott
- **Maria Fernandez Espada Pastor**, Visitor with Prof Cameron Jones
- **Emma Underhill**, Visitor with Prof Cameron Jones
- **Brooke Osborne**, Visitor with Prof Cameron Jones
- **Alvaro Fontana**, Visitor with Emeritus Prof Alan Bond
- **Prabu Dev**, Visitor with Prof Steven Langford
- **David-Daniel Tan**, Visitor with Dr Brendan Wilkinson
- **Sean Han**, Visitor with Dr Rico Tabor
- **Sherly Mazhuvanchery Avarachen**, IITB PhD student with Dr Terence Chan
- **Hana Alshehri**, PhD student with Dr Kellie Tuck
- **Alexander Hainies**, PhD student with Prof Alan Chaffee
- **Yih Ching Ong**, PhD student with Prof Phil Andrews
- **Carla Zito**, Honours student with Dr Brendan Wilkinson

*Staff profile – Professor Philip Marriott*

Philip Marriott joined Monash School of Chemistry in November 2010, from RMIT University. He received his PhD in Analytical Chemistry (Gas Chromatography of Metal Complexes) at La Trobe University and conducted postdoctoral research at University of Bristol working with Prof Geoff Eglinton (Organic Geochemistry; GC and MS of metalloporphyrins). His first academic appointment was at the National University of Singapore; research included on-column dynamic molecular interconversion processes in GC (organometalllics, metal complexes and N-inversions). He is currently ARC DORA recipient, an ARC College of Experts member, and was a National Research Foundation of Korea World Class University Distinguished Professor.
He holds a patent in comprehensive two-dimensional GC (GC×GC) and is a leading exponent of GC×GC and MDGC with MS. In this area he maintains research interests in olfactometry, preparative GC, and next generation stationary phases e.g. ionic liquids and MOFs. Applications include diamondoids, fuels, FAME, essential oils, phytochemicals, metabolomics and pesticides.

2. Events and Outcomes

Australian Synchrotron Reaches 1000 papers Milestone

The Australian Synchrotron congratulates Monash University researchers on entering the 1000th paper into the facility publications database. Professor Michael James, Head of Science, celebrated the achievement. “It is a singular achievement to have passed this milestone in a facility with 9 beamlines (experimental stations) and in only 6 years. What is even more amazing is that the growth in outputs is such that we are on track to reach 2000 papers in only another 3 years. This level of productivity is testament to the dedication of our staff and their support of excellence in the research community.”

The work in the 1000th paper, by William Gee and Stuart Batten, explores the development of new molecular tools needed to explore and develop materials with advantageous properties. In this case the researchers demonstrated the exploration of a class of materials suitable for application in organic light emitting diodes – touted as the basis for the next generation of flat and curved screen televisions.

Ten Most Stressful and Least Stressful Jobs of 2013

Being a University Professor has topped the list of the worlds least stressful jobs! We are ahead of seamstresses, jewelers, librarians and dietitians. The most stressful jobs included military personnel, firefighters and airline pilots. See:

www.smartplanet.com/blog/bulletin/10-most-stressful-and-10-least-stressful-jobs-of-2013/13177

There was a lot of debate over the list, primarily from University Professors!

World Ranking Metrics for our Chemistry Discipline by Year and Methodology 2009-2013

<table>
<thead>
<tr>
<th>Ranking Scheme</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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<td>QS Discipline$^b$</td>
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<td>41</td>
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<td>NTU Discipline</td>
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<td>Go8 Benchmarking$^{c,d}$</td>
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<td>ERA 03$^{d,e}$</td>
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<td>4</td>
<td></td>
<td>5</td>
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</tbody>
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$^a$ THES does not rank to discipline. $^b$ Discipline rankings began in 2011. Top 200 listed. $^c$ Retrospective measure indicating performance 2 year prior. $^d$ A national ranking. Does not include ANU ranking in
Green Chemical Futures

Construction has begun. We achieved a large milestone recently with the end of demolition. The installation of the large central crane signifies the beginning of the most exciting phase of this project. Remember to monitor construction over time by viewing the following website which updates every 15 min:

http://webcamftp.aconex.com/sitecams/webcam/Monash_Uri_Green_Chemical_Futures_CAM1.jpg

Renovations

We are continuing to rejuvenate our spaces. Projects to be completed between now and the end of the year include:
• Ground floor B23S corridor. The walls were recently rendered. Painting, new ceiling and flooring to come.
• Extension of the Bruce West Seminar Room. Expansion to accommodate seating for 75. The tea room will move to a similar central location to be announced later.
• Relocation of the X-Ray facility to larger space across the corridor. This will house our 3 single crystal and 1 powder diffractometers.
• Central stair well. Continue carpeting of stairs and landing to match existing renovation.
• Level 1 B19 Corridor. New ceiling, carpet and walls painted to match existing theme. Schematic shown below of how this might look.

Farewell to our Varian 300MHz NMR spectrometer. After 15 years of service (13 good) we have decommissioned this spectrometer and will use the space to deliver new techniques for our senior undergraduate classes.

3. Upcoming Events and Opportunities

School Seminars

• Monday 30 September, 12:00 pm Bruce West Seminar Room, A/Prof Rob Atkin, University of Newcastle, title to be advised.

• Monday 14 October, 12:00 pm Bruce West Seminar Room – Athel Beckwith Lecture – A/Prof Richard Payne, University of Sydney, title to be advised.

• Monday 11 November, 12:00 pm Bruce West Seminar Room, A/Prof Jonathan Morris, University of New South Wales, title to be advised.

• Thursday 21 November, 12:00 pm Bruce West Seminar Room, Prof Lyle Isaacs, University of Maryland, USA, Cucurbit[n]uril Molecular Containers: From Basic Science to Drug Delivery.

• Thursday 28 November, 12:00 pm Bruce West Seminar Room, Prof Julie MacPherson, Warwick University, title to be advised.
Monash Chemical Society

- Wednesday 9 October, 4:00 pm Lecture Theatre S4, Dr San H. Thang, CSIRO Materials Science and Engineering, Reversible Addition-Fragmentation Chain Transfer (RAFT): Recent Advances and Some of its Applications.

Special Seminars

When: Wednesday 26th September, 10-12 pm
Where: Rotunda Theatre R3/8

- 10:00-10:40 am "Synthesis and characterization of novel Polyoxometalates" A/Prof Tadaharu Ueda
- 10:40-11:10 am "Synthesis, nanostructures, and thermal properties of ABA-type amphiphilic triblock copolymers" Dr Shingo Hadano
- 11:10-11:40 am "Functional metal complexes utilized non-covalent interactions –siderophores, catalysts, luminescent complexes" Dr Kenji Matsumoto

Advertisements

Professor of Sustainable Chemistry
Monash Warwick Alliance

Monash University and the University of Warwick are seeking to recruit an outstanding scientist to pursue internationally leading research in chemistry with applications in sustainable chemistry as part of the Monash Warwick Alliance. This will be a joint appointment. You will primarily be based at Monash but are expected to spend a significant amount of time at Warwick, to direct substantial research efforts in both institutions and to contribute to teaching and leadership. Resources will be available to facilitate this international programme, including personnel, travel and other budgets.

Monash has a significant international reputation in green chemistry and outstanding facilities to support research in sustainable chemistry and engineering with significant recent investment in a $75M Green Chemical Futures facility.

There will be opportunities to forge interdisciplinary collaborations between the two institutions. You will have expertise in an area relevant to sustainable chemistry and you will have the ability to complement ongoing research at Monash or Warwick. You will be appointed on two fractional contracts with Monash University (0.8 FTE) and the University of Warwick (0.2 FTE) up until December 2017; thereafter you will ordinarily revert to a substantive, continuing professorial appointment in the School of Chemistry, Monash University. Salary will be commensurate with
the specific university remuneration ranges. Travel and relocation benefits will apply.

Closing Date

2014 Australia-Harvard Fellowships
Awards for researchers and educators in science, medicine and engineering

Australia-Harvard Fellowships are aimed at innovators who are normally based at Harvard and have a persuasive plan to collaborate with Australia’s best science/technology researchers and educators. Similarly for Australian researchers to follow-up at Harvard.

The Fellowships are offered by Harvard Club of Australia Foundation which supports learned exchange between Harvard University and Australia. The Foundation seeks to attract applicants whose work will bring clear benefit to Australia as well as the University. Most favoured will be those applicants who can demonstrate strong potential for ‘break-through’ impacts resulting from their collaborations. HCA Foundation values highly those projects which intend to use our contribution as ‘seed capital’ for superior innovations.

Australia-based applicants become eligible when they can demonstrate significant value in working at Harvard with a former inbound Fellow, and have the intention to bring advances back to their Australian institutions.

Australia-Harvard Fellowship grants are donated to the host Australian institutions which then administer the funds on standard terms. Further information including eligibility and guidelines:

http://australiaharvardedu.org/index.html

Applications Close: 23 September 2013.
RAMSAY MEMORIAL FELLOWSHIPS TRUST

RAMSAY MEMORIAL FELLOWSHIPS FOR POSTDOCTORAL CHEMICAL RESEARCH

Applications are invited for the award by the Ramsay Trustees of General (British) Ramsay Memorial Fellowships in 2014.

Ramsay Memorial Fellowships are unique in providing opportunities for postdoctoral chemists who have already had some postdoctoral experience of research but who are in the early stages of their academic careers to initiate an original and independent programme of research.

Duration

Ramsay Fellowships will normally be tenable at a university in the United Kingdom for two years on a full-time basis with effect from 1 October 2014.

Value

The Ramsay Trust will contribute 50% of each Fellow’s total salary costs up to a maximum of £15,000 per annum, with the balance to be paid by the host institution or other co-sponsoring body. In addition, a grant of up to £1,000 per annum may be requested for (non-travel) research expenses.

Ramsay Memorial Fellowships were established as a memorial to Sir William Ramsay, KCB, FRS – who received Britain’s first Nobel Prize for Chemistry, in 1904, for his discovery of the noble gases – for the purpose of promoting the development of the science of chemistry by encouragement of individual ability at the highest level.

Further information and application forms are available online at http://www.ucl.ac.uk/ramsay-trust/ or from the Executive Secretary, Ramsay Memorial Fellowships Trust, c/o Academic Services, Student and Registry Services, UCL, 2 Taviton Street, London WC1E 6BT, UK; telephone (0207) 679 8592; fax (0207) 679 8595; email g.hawes@ucl.ac.uk.

Completed application forms must be received by no later than 15 November 2013. The Trust particularly welcomes female applicants.

BY ORDER OF THE TRUSTEES
Registered Charity Number 313811
Wednesday 9th October, 2013
2:00 - 5:00 pm
Seminar Room
National Centre for Synchrotron Science
Australian Synchrotron
800 Blackburn Rd, Clayton

“Something to Bragg About”

AXAA Victoria Student Seminar Day 2013

• For undergraduate, Honours, Masters and PhD students, with results from any X-ray or neutron diffraction or scattering technique(s) that have been applied to their research (any discipline).

• Student presentations 15 minutes in length, with additional time for questions.

• Prize money will be awarded for the best presentations, including a bursary to attend the AXAA-2014 Conference in Perth, February 2013.

• All are welcome to attend – students, supervisors, colleagues….Please RSVP to nathan.webster@csiro.au

• Refreshments will be provided after the seminars.

• Send applications by email to nathan.webster@csiro.au by 5 pm Friday 27th September 2013.

• Applications must include your name and contact details, and an abstract (maximum 400 words) which will include details of the diffraction/scattering technique(s) used.

• Applicants will be notified of abstract acceptance by Monday 30th September.

• For more information contact Nathan Webster or Natasha Wright (natasha.wright@csiro.au)
Quote of the month:

*We don’t live in a world of reality, we live in a world of perceptions.*

Gerald J. Simmons