

## ANZMAG NEWS – JUNE 2018

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Dear all,

Welcome to the June ANZMAG e-newsletter. This month we have the usual mix of magnetic resonance and science related items for you. Sadly, nothing as good as the MRI of a meat Pie like last month but I hope you enjoy the newsletter.

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### ANZMAGers in the News

**Professor Sever Sternhell** (USyd chemistry) was the recipient of an Order of Australia in the latest round (Queen's birthday honours list). Prof Sternhell is perhaps most renowned for pioneering the introduction of NMR into Australia in the early 1960's when the technique was just emerging as one of the most important tools for organic chemistry.

**Frances Separovic** (UniMelb, Chemistry) has just been elected to the committee of the [International Council for Science Regional Office for Asia and the Pacific](#)

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### TALKS AND CONFERENCES

Professor Mary Garson (UQ) will be presenting the [Royal Society of Chemistry Australasian lecture for 2018](#) at the following venues and dates. The seminar title is Game of Terpenes: Structure, Stereochemistry and Chemical Ecology of Nudibranch Metabolites. Professor Garson's talks are NMR based and well worth hearing. The dates are - 29 August University of Wollongong, 30 August University of New South Wales, 3 September University of Tasmania, 13 September James Cook University, 24 September University of Auckland, NZ, 25 September University of Otago, NZ, 26 September University of Canterbury, NZ, 27 September Victoria University of Wellington, NZ, 28 September Waikato University, NZ, 2 October Melbourne University, 3 October Monash University, 5 October Deakin University, Late October University of Sydney, Macquarie University – dates to be advised.

Jeffrey Harmer (also of UQ) is organising the *third joint conference of the Asia-Pacific EPR/ESR Society and The International EPR (ESR) Society (IES) Symposium at the UQ St Lucia Campus from 23 – 27 September 2018*. Co-chairs are Nick Cox (ANU) and Steven Bottle (QUT). More information on the APES-IES2018 meeting is available on the website at <http://www.apes-ies2018.org/> Please Send any enquiries to [jeffrey.harmer@cai.uq.edu.au](mailto:jeffrey.harmer@cai.uq.edu.au)

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### NMR ART



We all know that a complex observable phenomenon in three-dimensional space (such as the nuclear magnetic moments of a static molecule) can be represented by 3 x 3 tensors or sets of nine numbers, right? But what if you could make art out of this? Well, John V. Muntean has just done that and created Magic Angle Sculptures which are really cool. See <https://www.jvmuntean.com/#intro> and <https://www.dropbox.com/s/xiy2vt7ol3v26oo/MAS%20art.pdf?dl=0> for more info. Thanks to Prof Frances Separovic for sending this my way.

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 Don't forget that nominations for all 15 RACI National Awards for 2018 close 11:59 PM AEST tomorrow, 30 June. Now is your final chance to apply or nominate a deserving #OzChem-ist! <https://www.raci.org.au/raci-news/national-awards-2018>  
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## JOBS AND FELLOWSHIPS

There are a few jobs in Chemistry and Magnetic Resonance advertised at the moment.

- The University of New South Wales (UNSW) is looking for a new Director of the NMR Facility and Spectroscopy Lab at its Mark Wainwright Analytical Centre. See <http://external-careers.jobs.unsw.edu.au/cw/en/job/494116/director-nuclear-magnetic-resonance-nmr-facility-level-cd> for details and the advert on dropbox at <https://www.dropbox.com/s/5uglagjdlprwm0x/Advertising%20-%20%20Director%20of%20NMR%20Facility%20-%20journals.pdf?dl=0> for details.
- UNSW are also looking for a director for a their new MR imaging Facility. The job advert is at <http://external-careers.jobs.unsw.edu.au/cw/en/job/494105/imaging-facility-director-human-imaging-research-facility> for those interested.
- This one is more analytical chemistry than NMR but RMIT are recruiting a Research Fellow for 'Breeding and Pre-clinical analysis of Medical Cannabis for cancer treatment'. The commencement date is around September 2018 subject to approval from regulatory bodies. For more information please see <http://yourcareer.rmit.edu.au/caw/en/job/559848?ApplicationSubSourceID=>
- The Victoria Fellowships recognise the important role of innovation in Victoria's economic future and the need for Victorians to be skilled in science, technology, engineering and mathematics. The 2018 Victoria Fellowships in the life or physical sciences, valued at up to \$18,000. See <https://www.veski.org.au/vicfellow-criteria> for info.
- You can find more jobs online if the above don't help. Just head over to <https://www.nature.com/naturejobs/science/jobs?utf8=%E2%9C%93&q=NMR&where=&commit=Find+Jobs>

## STORIES FROM THE WEB

- [https://www.eurekalert.org/pub\\_releases/2018-06/bsp-epr062618.php](https://www.eurekalert.org/pub_releases/2018-06/bsp-epr062618.php)

This story discusses the use of EPR a suitable tool to detect spin density changes in different nanocarbon architectures.

- <http://www.iflscience.com/health-and-medicine/this-new-medical-procedure-could-make-mercury-leak-out-of-your-teeth/>

My favourite line in this (unfortunately titled) story about MRI affecting fillings is '*The researchers took 60 "human teeth that had been extracted for various reasons", which sounds very fine and not suspicious*'.

- <https://www.scientistlive.com/content/nmr-sec-combination-success>

Magritek are at it again. In this story their benchtop NMR system is used to develop new chemical detectors for size-exclusion chromatography.