

ANZMAG NEWS - MAY 2015

By Oliver A.H. Jones (RMIT University - oliver.jones@rmit.edu.au)

Dear all,

Welcome to the 3rd ANZMAG e-newsletter for 2015. I hope you enjoy the news this month. As per usual, I'm happy to accept feedback and additions so please feel free to send suggestions, comments etc.

FELLOWSHIPS AND AWARDS

UNSW is offering **Vice-Chancellor's Postdoctoral Research Fellowships** for early career researchers wishing to conduct in any UNSW research strength; the most relevant for magnetic resonance researchers is probably Biomedical Sciences. See <https://research.unsw.edu.au/vice-chancellor-s-postdoctoral-research-fellowships> for details.

The University of Sydney also has a **Postdoc fellowship scheme** at http://sydney.edu.au/research_support/funding/sydney/postdoctoral_fellowship.shtml and equity fellowships at http://sydney.edu.au/research_support/equity/index.shtml

The Endeavour Scholarships and Fellowships (detailed last month) are now open for applications but will close on 30th June 2015. Please see the website at https://internationaleducation.gov.au/Endeavour_program/Scholarships-and-Fellowships/Pages/default.aspx for all the details.

In the UK, **UCL's Excellence Fellowship** Program seeks to recruit early career researchers from across the globe. Applications are open at <https://www.ucl.ac.uk/slms/research/excellence-fellowship>

For all chemists, the Royal Australian Chemical Institute has a whole host of awards open for nominations. Please see <https://www.raci.org.au/events-awards/awards> for the details.

The RSC are looking for nominations for the Knox medal for Separation Science see <http://www.rsc.org/Membership/Networking/InterestGroups/separationscience/Awards.asp> for info.

SOFTWARE NEWS

Professor Steffen Glaser (steffen.glaser@tum.de) from the Technische Universität München recently presented the new version of his free SpinDrops app for the interactive simulation of the dynamics of coupled spins at the ENC conference in Asilomar. He is keen to build an active international community of users with feedback and an exchange of pulse sequences and ideas how to use SpinDrops in education and research via the app. SpinDrops can be downloaded from the app store at <http://itunes.apple.com/de/app/spindrops/id891357240?mt=8>. Currently the app is only available for the iPad and iPhone, but they plan to implement it for other platforms. You can find a two-page PDF file with a brief description of the app, as well as useful links at <http://bit.ly/1KSFuYe>. The app includes detailed help files with tutorials, examples, exercises and challenges. A theoretical paper on the mathematical background of the DROPS representation for coupled spins appeared in Phys. Rev. A 91, 042122 (2015).

Mnova are bringing out an NMR app for iPad and Android that lets you process NMR data from all sorts of vendors on the go. See <http://nmr-analysis.blogspot.com.es/2015/05/nmr-for-ipad-and-android-beta-testing.html> for the info.

NB: This is just one of a whole host of magnetic resonance based apps on both the Google Play and Apple Stores; just search for NMR, EPR or MRI.

UPCOMING CONFERENCES

There are a number of MR related conferences coming up in 2015.

New Zealand

The next ANZMAG conference will be held from the 29th November to the 3rd December 2015. It will take place in the Copthorne Hotel and Resort near Paihia in the Bay of Islands. The website is now up and running with lots more information so please see <http://anzmag2015.co.nz/> for all the details.

China

Registration for the 6th Asia-Pacific NMP Symposium (APNMR6) in Hong Kong is now open. This year, APNMR6 will take place at The Hong Kong University of Science and Technology during the week of August 13 - 16, 2015 and your editor is an invited speaker. For details please visit <http://apnmr.ust.hk/>. Questions may be directed to Ms. Angel Cheung (angelcheung@ust.hk) or (852) 3469 2285.

United Kingdom

The 9th Conference on Fast Field-Cycling NMR Relaxometry will be held at the University of Aberdeen, Scotland, from Monday 27th to Thursday 30th July, 2015. The conference covers all aspects of Fast Field-Cycling magnetic resonance, including theory, hardware, techniques, applications, relaxometry, imaging, and ultra-low field methods. Full details at <http://www.abdn.ac.uk/events/ffc-2015/> for those interested.

PUBLICATIONS CORNER

The Chemistry of Molecular Imaging by Nicholas Long and Wing-Tak Wong. The first book, written from a chemist's point of view, to address the nature of the chemical interaction between probe and environment. See <http://au.wiley.com/WileyCDA/WileyTitle/productCd-1118093275.html> for all the details.

Metabolism by In Vivo NMR edited by Robert Shulman and Douglas Rothman. Experimental and theoretical reports concerning *in vivo* NMR, an approach that offers versatile new ways of studying metabolic pathways. See <http://au.wiley.com/WileyCDA/WileyTitle/productCd-0470847190.html>

Metabolomics and Systems Biology in Human Health and Medicine edited by (your editor) Dr. Oliver Jones of RMIT University. *NMR and MRI* feature in the book see <http://www.cabi.org/bookshop/book/2553>

STORIES FROM THE WEB

- http://www.science20.com/news_articles/electron_paramagnetic_resonance_spectroscopy_reveals_health_benefits_of_coffee-155263 (A very nice story on how EPR reveals the health benefits of coffee). See also <http://bit.ly/1DXgskK> for the full paper.
- <http://www.spectroscopynow.com/details/ezine/14d0a7b07c5/Journal-Highlight-Minimising-research-bottlenecks-by-decluttering-NMR-spectra.html?&tzcheck=1> (a nice journal highlight on minimising research bottlenecks by decluttering NMR spectra).
- <http://www.cnet.com/au/news/mystery-solved-why-do-knuckles-crack/> (story on using MRI to solve the mystery of the 'pop' of cracking knuckles, trivial but fun).
- <http://bit.ly/1cyrWWP> (an interview with Magritek CEO, Andrew Coy at Pittcon 2015).