

ANZMAG NEWS - OCTOBER 2016

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Dear all,

Welcome to the October ANZMAG e-newsletter. I suspect many of you are on tenterhooks waiting for the outcome of the ARC grant rounds (I know I am). Here's hoping magnetic resonance has a good year.

MEETINGS

The **23rd ANZMAG Annual General Meeting** will be held at 12pm on Tuesday November 29th 2016. This is the same day as the 7th Biennial Western Sydney University Symposium on NMR, MRI and Diffusion (see next item) at Lecture Theatre 5 (CA21.G.03) on the WSU Campbelltown campus. All ANZMAG members can attend and are encouraged to do so. We need at least 20 members to make quorum so not excuses if live in Sydney). Items for the agenda should be sent to Prof Lindy Rae on c.rae@neura.edu.au - why not come to the WSU Symposium at the same time (see below).

The **7th Biennial Western Sydney University Symposium on NMR, MRI and Diffusion** is held biennially and showcases theoretical developments and cutting edge applications of Magnetic Resonance Imaging (MRI) and Nuclear Magnetic Resonance (NMR) Diffusion measurements. There is a great line-up this year (as always) so please head to <http://bit.ly/2e1SlbC> to see all the details.

Don't forget that the **The Asia-Pacific NMR Symposium & 23rd Annual meeting of NMRS-India** will be held from February 16-19, 2017 at the Indian Institute of Science in Bangalore. The website is now open at <http://bit.ly/2drknRz> for more information. Thanks to Prof. Ray Norton for sending this one in.

If you don't like travel, then how about an online educational webinar on the **implementation of high-field techniques** on benchtop spectrometers hosted by Magritek. I am looking forward to this one on Thursday, October 27th from 12:00 - 12:45pm US Pacific Time. See <http://bit.ly/2e9i8lQ> for all the information.

GRANTS AND AWARDS

I hope that most people reading this are aware that ARC and NHMRC are not the only category one grants around. As magnetic resonance could be applied in many areas you might also be thinking of many of the large range of other grants on the 2016 Australian Competitive Grants Register (ACGR) which you can see at <http://bit.ly/2evfucp> if you are keen

If you are in New Zealand see <http://bit.ly/2e2svdM> as well.

If you have access please also see <https://www.researchprofessional.com> for a huge list of grants and prizes from around the world. It is really handy.

Younger ANZMAG members may like the **\$1500 young scientists, encouragement award**. ATA Scientific is running this one. This award is intended to provide student with financial assistance to attend a relevant science conference or to further their research or studies. Head over to <http://www.atascientific.com.au/eventsandtraining/awards/> to enter. The closing date is 28th October.

The **Lorne Protein Conference Young Investigator award** is for early career protein scientists within 1-5 years of a PhD (with allowances for career interruptions) who have a strong track record and an interesting story to tell. Please encourage eligible applicants to apply at <http://bit.ly/2drhIN2>

COMPOUND CHEMISTRY INFOGRAPHIC COMPETITION

I thought this would be a bit of fun. The Compound Interest website (<http://www.compoundchem.com/>) features educational infographics exploring the chemistry of everyday compounds. (recently made into a great book). It has become quite famous. Now they are running a competition for you to win a graphic based on your research. See more at <http://www.compoundchem.com/rtc2016/> for details.

TEACHING RESOURCES FOR NMR AND MR

Last year I put together a list of freely available online material that I use as supplementary materials (including some from the ANZMAG YouTube channel) when teaching NMR. I updated this after some comments from ANZMAG members. The latest version is at <http://bit.ly/1Lw7ZZS> if you are interested.

MAGNETIC RESONANCE JOBS

Magnetic Resonance can take you into a range of jobs, some of them outside science.

Macquarie University is looking for a Lecturer/Senior Lecturer in Biomedical Engineering - <http://bit.ly/2eTbSDZ>

An R&D Chemist (with NMR) experience in needed in North Melbourne - <http://bit.ly/2eHCHvV>

A range of other jobs can be seen on <https://www.seek.com.au/> and naturejobs.com if you are keen.

STORIES FROM THE WEB

We finish, with our usual stories featuring different forms of magnetic resonance from the web

- <http://www.news-medical.net/whitepaper/20160920/EPR-unveils-hidden-mechanisms-of-microbial-methane-production.aspx>

Another story on the use of EPR to loom at methane production. Last month it was cows, this month methanogenic archaeobacteria

- <http://www.spectroscopynow.com/nmr/details/ezone/15770bd85ac/Plutonium-NMR-examines-electrons.html?tzcheck=1>

Did somebody say Plutonium NMR? See now this element's inner electronic secrets have been investigated via Fluorine NMR of plutonium tetrafluoride.

- <http://www.gizmodo.com.au/2016/10/australian-scientists-are-making-an-atomic-scale-mri-machine/>

Researchers at the University of Melbourne have developed a way to radically miniaturise Magnetic Resonance Imaging using atomic-scale quantum computer technology.

One last story that was sent in by Prof Frances Separovic is the sad news that that Erwin Hahn, a giant of NMR and physics passed away last month at the age of 95.

As Prof Separovic notes 'his legacy remains...'

Until next time, have a great month, please don't forget to send news items into me if you would like to see them in ANZMAG news.