

## ANZMAG NEWS - JUNE 2015

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

Dear all,

Welcome to the ANZMAG e-newsletter for June 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.

### JOBS AND FELLOWSHIPS AND AWARDS

The University of Western Australia is offering a **senior lectureship in NMR** at where duties extend from supervision of the maintenance and operation of four NMR spectrometers and training users of the facility to undertaking research projects involving NMR spectroscopy. You can see the full advert at <http://external.jobs.uwa.edu.au/cw/en/job/494476/senior-lecturer-nuclear-magnetic-resonance-ref-494476> for all the details.

Macquarie University is offering **Junior Research Fellowships** to support researchers within three years of the award of their PhD who have an outstanding track record (relative to opportunity) and/or who show evidence of excellent research potential - I am assuming this means a good publication record. Please see [http://www.research.mq.edu.au/research\\_funding/internal\\_funding/mqrf](http://www.research.mq.edu.au/research_funding/internal_funding/mqrf) for all the details.

**The Endeavour Scholarships and Fellowships** (detailed last month) are still open for applications but will close at the end of this month. Please see the website at [https://internationaleducation.gov.au/Endeavour\\_program/Scholarships-and-Fellowships/Pages/default.aspx](https://internationaleducation.gov.au/Endeavour_program/Scholarships-and-Fellowships/Pages/default.aspx) for all the details.

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

For job hunters, if none of the above is of interest then don't forget that don't forget that [findaphd.com](http://findaphd.com), [findapostdoc.com](http://findapostdoc.com), [naturejobs.com](http://naturejobs.com), [newscientistjobs.com](http://newscientistjobs.com), and [jobs.ac.uk](http://jobs.ac.uk) all have a range of other options for magnetic resonance jobs worldwide, just do a search for 'NMR'. 'EPR' or 'MRI'.

-----

### SOFTWARE NEWS

**Spin dynamics analysis (SPIDYAN)** is an open-source program for simulation of spin dynamics phenomena and pulse EPR experiments with MATLAB. Features include propagation in Hilbert and Liouville spaces (for relaxation effects), simulation in different rotating frames, resonator effects, bandwidth compensation for pulses and phase cycling. YOU can see this a host of other EPR related software from the ETH in Zurich at <http://www.epr.ethz.ch/software>

**OsiriX for Mac** displays data obtained from medical equipment such as PET, CT, and MRI scans in up to five dimensions. The trial edition, which serves as a base for the certified version, can be seen at [http://download.cnet.com/OsiriX/3000-2129\\_4-47935.html](http://download.cnet.com/OsiriX/3000-2129_4-47935.html)

**Image 32** allows the user to view and share medical images. The idea is to provide fast, simple, secure. Xrays, CT Scans, MRIs, ultrasounds etc. See <http://image32.en.softonic.com/mac> for the details.

NB: I have not tested any of the above and so I would advise that you all please take the standard precautions if you install them on your computer.

-----

## 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 29<sup>th</sup> November to the 3<sup>rd</sup> 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 and abstract submission is open so please see <http://anzmag2015.co.nz/> for all the details.

### Germany

The 7<sup>th</sup> Summer School of the European Federation of EPR groups on Advanced EPR will take place in Berlin, Germany from August 24<sup>th</sup> to the 31<sup>st</sup> 2015. Full details can be seen online at [http://www.helmholtz-berlin.de/events/efep/index\\_de.html](http://www.helmholtz-berlin.de/events/efep/index_de.html) for those that are keen.

### The Netherlands

Would you like a conference on Hyperpolarized Magnetic Resonance? Well good news, the joint 5th International DNP symposium and COST action EUROHyperPOL final meeting will be held from August 31<sup>st</sup> - September 3<sup>rd</sup>, 2015 in Egmond aan Zee in the Netherlands. The website at <http://www.nmr.nl.org/hyperpolarizedMR> has the details.

### France

The 9<sup>th</sup> Alpine Conference on Solid-State NMR will be held from September 13<sup>th</sup>-17<sup>th</sup>, 2015, in the fantastic surroundings of Chamonix Mont-Blanc, France. Full details at <http://www.alpine-conference.org> NB: if you can swing the conference fee the surroundings alone make this one a good choice.

### Japan

The 54<sup>th</sup> Meeting of the Society of Electron Spin Science and Technology (SEST2015) will take place in Niigata, Japan from the 2<sup>nd</sup> to the 4<sup>th</sup> November.

Please see [http://chem.sc.niigata-u.ac.jp/~sest2015/contents/SEST2015\\_English.pdf](http://chem.sc.niigata-u.ac.jp/~sest2015/contents/SEST2015_English.pdf) for the full details.

-----

## PUBLICATIONS CORNER

Hyperpolarized Xenon-129 Magnetic Resonance: Concepts, Production, Techniques and Applications, edited by Thomas Meersmann and Eike Brunner <http://pubs.rsc.org/en/content/ebook/978-1-84973-889-7-divbookcontent>

-----

## STORIES FROM THE WEB

- <http://taunton.wickedlocal.com/article/20150608/NEWS/150607453> (A very nice story on how EPR and NMR have been used jointly to develop a method to monitor iron in cells. See also <http://onlinelibrary.wiley.com/doi/10.1002/cbic.201200202/abstract> for the full paper.
- <http://www.spectroscopynow.com/details/ezone/14d4d30c60a/Rift-Valley-Virus-NMR-clues.html?&tzcheck=1> (A US team has used NMR spectroscopy to investigate the structural properties of an important protein of the Rift Valley fever virus).
- <http://www.photonics.com/Article.aspx?AID=57474> (how combining optical microscopy and MRI techniques aims to uncover the complexities of tumors to help better tailor cancer treatment).