

ANZMAG NEWS - FEBRUARY 2017

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

Dear all,

I hope that everybody had a good week and is not too shocked to be back in semester already. This month we have the following news for you.

REPORT ON UK NMR INFRASTRUCTURE

I thought this report from the UK on NMR infrastructure might be of interest to many of you - <https://www.epsrc.ac.uk/files/newsevents/news/nmr-infrastructure-in-the-uk/> It is quite long but it is very interesting and well set out and worth a read. A short summary can be seen at www.chemistryworld.com/news/uk-must-update-nmr-infrastructure-research-councils-say/2500400.article

NB; The draft 2016 National Research Infrastructure Roadmap was released for comment on 5 December 2016; 172 submissions were received in response to the Draft Roadmap. Public submissions are now available on the Department's website (<https://www.education.gov.au/2016-national-research-infrastructure-roadmap>).

CONFERENCES

A list of EPR-Related conferences for 2017 can be seen at <https://www.ieprs.org/meetings.php>

A list of Upcoming NMR Events and Conferences can be seen at http://nmr900.ca/nmr_events.html

A list of MRI (and NMR) related resources (including conferences) is available at <http://www.ismrm.org/resources/mr-sites/>

NB: The 13th Annual Conference of the Metabolomics Society will be in Brisbane, 26th-29th June 2017. It is now open for the submission of abstracts. Magnetic Resonance has always featured big in metabolomics and the theme of the conference is building bridges so if you use magnetic resonance for food, natural product work, etc. then online abstract submissions close on March 24, 2017. Please head over to <http://metabolomics2017.org/submission/abstract-submission> for all the details.

A NEUROSCIENTIST EXPLAINS: MAGNETIC RESONANCE IMAGING - PODCAST

Recently, the Observer Magazine in the UK ran a story by columnist and neuroscientist Dr Daniel Glaser delving into the world of magnetic resonance imaging (MRI) covering questions such as How does it work? Where did it come from? And what can it tell us about the intricacies of the human brain? You can listen to this at <https://www.theguardian.com/science/audio/2017/feb/19/a-neuroscientist-explains-magnetic-resonance-imaging-podcast> It may be handy for teaching.

GRANTS CORNER

While many of you are I am sure frantically putting the finishing touches to ARC Discovery and LIEFs as well as NHMRC project grants (#grantfest) there are one or two other grants schemes out there (see over page).

National Foundation for Medical Research and Innovation Grants - The NFMRI provides financial support to research projects and is presently calling for Expressions of Interest for the 2017 Annual Grant Round. You can find out more at <http://www.nfmri.org.au/research-and-innovation/apply-for-support/>

Australia Awards are prestigious international Scholarships and Fellowships funded by the Australian Government. See <http://australiaawards.gov.au/Pages/howtoapply.aspx> for more information.

The **Thomas Davies Research Grant for Marine, Soil and Plant Biology** offers annual science grants to early- and mid-career researchers in the field of marine, soil and plant biology. See <https://www.science.org.au/opportunities/research-funding/thomas-davies-research-grant-marine-soil-and-plant-biology> for more information.

For other grant opportunities the Research Professional site has a range of grant opportunities on it from all over the world. I sometimes find you have to tell it to only find Australian ones to narrow down the search but it is very useful. See <https://www.researchprofessional.com/0/rr/home>

PRIZES

Eureka Prizes: Presented annually, the **Australian Museum Eureka Prizes** reward excellence in the fields of research & innovation, leadership, science engagement and school science. There are a range of categories and entries for 2017 are now open at <https://eureka-entry.australianmuseum.net.au/home>

Anatole Abragam Prize: ISMAR has created the **Anatole Abragam Prize**, sponsored by Bruker, to pay tribute to the outstanding achievements of the late Anatole Abragam. Candidates are eligible within 7 years of completing their PhD. NB: Anatole Abragam made seminal contributions to both NMR and EPR and was a recipient of the ISMAR Prize and a Fellow of ISMAR. See www.weizmann.ac.il/ISMAR/prizes/anatole for more details.

STORIES FROM THE WEB

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

http://www.novuslight.com/electron-spin-resonance-esr-spectroscopy-extends-to-1-thz-range_N6653.html

This story talks about how a team from the Dresden High Magnetic Field Laboratory will be able to extend the frequency range of ESR techniques towards 1 THz.

<https://theconversation.com/obituary-professor-sir-peter-mansfield-whose-invention-of-the-mri-scanner-revolutionised-medicine-72815>

I thought this was quite an interesting obituary on Professor Sir Peter Mansfield, inventor of MRI who I had not realised had left school at 15. See also https://www.nytimes.com/2017/02/11/science/peter-mansfield-dead-nobel-prize-magnetic-resonance-imaging.html?_r=0

<http://www.epmag.com/understanding-nmr-logs-shales-1467386>

A nice story on Work at Rice University by George Hirasaki and Walter Chapman who are combining NMR measurements with molecular dynamics simulation to better define the contents of shale rocks

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. Oh, and if you have read all the way to the end, thank you. I thought you might like this picture of a 3d printed NMR spectrometer

- <https://twitter.com/DonahueGroupUSM/status/836621479072645121/photo/1>
