

ANZMAG NEWS - JULY 2016

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Dear all,

Welcome to the ANZMAG e-newsletter for July 2016. I hope you enjoy the news this month.

ANZMAG COURSE IN NMR-BASED METABOLOMICS BY DAVID WISHART

First up this month, some important news on NMR Metabolomics. As part of his 2016 ANZMAG Lectureship, Prof David Wishart from the University of Alberta, Edmonton will be giving 3-day course on NMR-based metabolomics from Wednesday 3/8 to Friday 5/8/2016 at the University of Queensland. The course will be covering the whole pipeline of NMR-based metabolomics, including methods, statistical data analysis, databases, etc. and is open to all ANZMAG members. Non-ANZMAG members interested in the course (e.g. people who didn't attend the last ANZMAG conference) can join the course by becoming ANZMAG members (\$10 for students, \$20 for non-students - <http://www.anzmag.com.au/>). A flyer for the course with all the details on it can be found online (thanks to dropbox) at https://www.dropbox.com/s/xhjvhkt9ylyx7rb/ANZMAG_Course_Flyer_updated.pdf?dl=0 - If you wouldn't mind, please also distribute this information to everyone who you think might be interested in attending. We are looking forward to seeing you in Brisbane in August.

NB: Prof Wishart will speak on as part of the Bio21 Big Picture Seminar Series at the University of Melbourne on Friday 29 July, - see <http://www.bio21.unimelb.edu.au/bio21-big-picture-seminar-professor-david-wishart-why-nmr-matters-metabolomics> for the details/

AWARDS AND FELLOWSHIPS

The Analytical and Environmental Chemistry Division of the RACI has just invited nominations for the following awards. 1) **the Peter W. Alexander medal** for early career excellence in analytical chemistry (<https://www.raci.org.au/document/item/1722>). 2) **The Doreen Clark medal** for excellence in analytical chemistry (<https://www.raci.org.au/document/item/1723>). 3) **The Environmental Chemistry medal** for excellence in scientific work in Australia (<https://www.raci.org.au/document/item/1724>) and 4) **The Original Research Publication award** for HDR students in the field of analytical and/or environmental chemistry (<https://www.raci.org.au/document/item/1725>).

The analytical scientist magazine is currently asking for nominations for their **Analytical Power list 2016** - which this year is celebrating the *Top 50 Women in analytical science*. It is only a short form and I think it would be good to get some magnetic resonance people on there if we can. Just click <https://theanalyticalscientist.com/surveys/The-Analytical-Scientist-Power-List-2016/> I hope we can show the panel that analytical science is not just about chromatography.

The Human Frontier Science Program (HFSP) funds frontier research in the life sciences. It is currently inviting applications for two postdoctoral Fellowships. The Long-term Fellowships enable applicants with a PhD in biological science to broaden their expertise by proposing a project in the life sciences which is significantly different from their previous work and Cross-disciplinary Fellowships enable applicants with a PhD from outside the life sciences, to work on fundamental biological problems, with emphasis placed on cross disciplinary research. <http://www.hfsp.org/funding/postdoctoral-fellowships/guidelines> for the details.

The **VESKI innovation fellowships** bring outstanding international scientists and researchers to Victoria. Candidates need to be offshore when they lodge applications. New applications should be uploaded to <http://www.veski.org.au/vif> for review at the end of the year.

The Australian-American Fulbright Commission is calling for applications to the Fulbright Specialist Program. At least 6 grants are on offer, to bring U.S. specialists for up to 6 weeks, to share expertise at Australian universities, and to build collaborative linkages with U.S. faculty and professionals on curriculum and faculty development, institutional planning and other activities. Please see <http://www.fulbright.com.au/index.php/archives/item/551-fulbright-specialist-program-fsp> for more information.

Applications are also now open for the **2016 Hugh Rogers Fellowships**. These support a self-contained and sustainable research project of a short duration (2-8 weeks) to be undertaken in an institution in Boston. Each fellowship may be awarded to those working in Melbourne only (sorry) in the early stages of their careers. This could be a great chance to make connections in the USA. The details are at <http://www.melbourne-boston.org/apply-now> if you are keen.

For other fellowships/ grants please have a look at the great website at <https://www.researchprofessional.com> if you have not already. It lists a huge variety of grants and prizes from around the world.

ASSOCIATE EDITOR POSTS FOR RSC ADVANCES

We have covered this one before but there if you are interested in becoming an Associate Editor for **RSC Advances**, applications are being considered for independent researchers with a minimum of 7 years research experience following the completion of a PhD. There are particularly short of people in the Analytical and Biological areas. This is a great opportunity to both earn some CV points and find out what it is like on the other side of the submission website. To find out more please contact Hannah Dunckley at the RSC office on dunckleyh@rsc.org who can provide more information.

PUBLICATIONS CORNER

This month I thought I would go over some basic textbooks for the three main forms of MR.

Electron Paramagnetic Resonance: A Practitioners Toolkit by M. Brustolon and E. Giamello (Editors) - This book is written for those new to EPR spectroscopy, it's detailed yet does not weigh you down with physics and maths (and it is from 2009). Reviewed at <http://pubs.acs.org/doi/pdf/10.1021/ja906788y>

Organic Structures from Spectra, 5th Edition by L.D. Field, S. Sternhell, and J. R. Kalman - is a carefully chosen set of more than 280 structural problems using NMR and other spectroscopic techniques.

MRI: Basic Principles and Applications, 4th Edition by B.N. Dale, M.A. Brown and R.C. Semelka - this is a nice accessible introduction to MRI principles and applications.

STORIES FROM THE WEB

- <http://www.azom.com/equipment-details.aspx?EquipID=3975> - This is a nice overview of new Electron Spin Resonance Education equipment for undergraduate chemistry teaching.
- <http://sensu.org/project/nuclear-magnetic-resonance/> - Produced for the official opening of the uNMR-NL research facility at Utrecht University this video on NMR and what it can do is very neat.
- <http://phys.org/news/2016-07-mri-machine-nanoscale-world.html> - This is a very interesting story about a new MRI machine at the nanoscale which is breaking world records