

ANZMAG NEWS: FEBRUARY 2022

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

Dear all,

Welcome to the 2nd edition of ANZMAG News for 2022.

Australia Day Honours List

Two chemists were recognised in the 2022 Australia Day Honours List. Dr Graeme Edward Batley AM was awarded a Member of the Order of Australia for his significant service to environmental toxicology and chemical science. Dr Graeme Moad AC was recognised by the highest award - Companion of the Order of Australia for eminent service to science, particularly polymer design and synthesis and radical polymerisation, education through mentoring, and to professional scientific organisation. Congratulations both. Should anyone want to nominate other scientists for these awards please see <https://www.gg.gov.au/australian-honours-and-awards/nominate-someone-award>

GRANTS AND AWARDS

The International Council on Magnetic Resonance in Biological Systems (ICMRBS) is looking for nominations of excellent young magnetic resonance spectroscopists for the 2022 Founders' Medal. See <https://icmrbs.ws.gc.cuny.edu/founders-medal/> for details.

There are several other awards open for applications.

- Poster prizes of the International EPR Society (<https://ieprs.org/>)
- The Raymond Andrew Prize 2022
- The Ernst Prize
- The Varian Young Investigator Award 2022

Details of all of these are at <https://euromar2022.org/awards/>

Applications for the 2022 Young Tall Poppy Awards opened on Monday 21st February and close on Tuesday 19th April (i.e. after the Easter weekend). Nomination forms can be accessed via <https://aips.net.au/tall-poppy-campaign/nominations/>

MRI Insight Series

Bruker have developed a new MRI Insight Series. Episodes 7 and 8 feature ANZMAG's own **Prof. Caroline Rae**. See <https://www.philips.com.au/healthcare/resources/landing/mri-insights> and scroll down.

MEETINGS

ISMAR2023 will be held in Brisbane next year (see ismar2023.org for more).

ANZMAG is host to the conference. An international scientific committee has just been formed to select plenaries and invites – with the promise of more speaking slots than previous conferences. (Co-chairs are Paul Gooley, Gottfried Otting, Mehdi Mobli).

Please promote the site to your students and colleagues who are not yet ANZMAG members and also note the dates in your diary.

The next ICMRBS meeting in Boston, USA, on 21st to the 25th August 2022
<https://www.icmrbs2022.org/>

EUROMAR will be held 10th -14th July. See <https://euromar2022.org> for details.

PAPER OF THE MONTH

This month's paper of the month is on the theme of education. The title is "**¹H NMR Spectrum: A Team-Based Tabletop Game for Molecular Structure Elucidation**" by Zachary Thammavongsy, Michael A. Morris, and Renée D. Link. It is quite a clever idea based around a team-based tabletop game focused on elucidating the structures of organic small molecules using ¹H NMR spectra. Students analysed the provided chemical shifts, splitting patterns, integrations, and molecular formula within a designated time limit to correctly deduce the structure associated with the ¹H NMR spectrum. After playing the game, students in a lecture course and a laboratory course self-reported that they felt more comfortable solving ¹H NMR spectroscopy questions, found the game to be an appealing study aid. You can read more about it at <https://pubs.acs.org/doi/full/10.1021/acs.jchemed.0c01267> and there is a video showing how it works at <https://www.dorbitalgames.org/tar-project>

STORIES FROM THE WEB

- <https://phys.org/news/2019-11-electron-paramagnetic-resonance-epr-spectroscopy.html>

Can we expand EPR spectroscopy to nanoliter volume protein single crystals?

- <https://jaysbrickblog.com/news/want-a-lego-mri-scanner-lego-is-inviting-radiology-departments-worldwide-to-apply/>

Could not resist this article. The LEGO Foundation has announced it will donate 600 LEGO MRI Scanners to hospitals worldwide to help children cope with the uncertainty of having MRI scan.

- <https://www.azom.com/article.aspx?ArticleID=21273>

An interesting article on the analysis of lignins using ³¹P Benchtop NMR Spectroscopy
