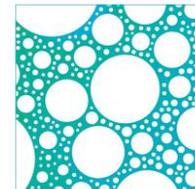


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ACIS Newsletter – Issue 15, July 2018

Welcome

Dear members,

Welcome to our 15th issue of ACIS News! We produce a quarterly newsletter - sent around in March, June, October, and December - to keep ACIS members informed of our initiatives and for members to directly communicate with our Society. We publish job announcements, meetings of interests to our society, career development opportunities and any exciting research that you would like to share with us. To keep you up to date with the on-goings in our colloids society, please send your suggestions and items for the next newsletter to boonmian.teo@monash.edu.

News

Newly elected Board of Directors

Congratulations to the newly appointed board of Directors! More information on our board members and the exciting research they are conducting can be found [here](#).



Ben Boyd
Monash University
President



Charlotte Conn
RMIT University
Vice President



Alison Tasker
University of Queensland
Treasurer



Gunther Andersson
Flinders University



Simon Corrie
Monash University
Honorary Secretary



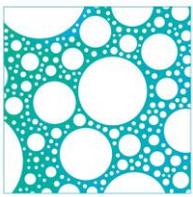
Rico Tabor
Monash University



Greg Warr
University of Sydney

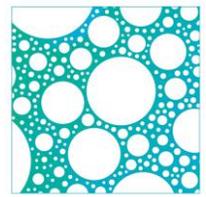


Tim Davey
Dulux Australia



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ACIS2019

The 9th Australian Colloid & Interface Symposium will be held at the Hotel Grand Chancellor, Hobart, 3 to 7 February 2019 (www.acis2019.info)



Themes will include:

- Soft Material Engineering in Foods, Consumer Care Products and Pharmaceuticals
- Colloids in Medicine
- Colloidal systems of graphene and 2D materials
- Scattering in Colloid and Interface Science
- Nanoparticles: Colloidal Stability, Self-assembly and Interactions with Light
- Mechanics of Suspensions, Gels, Emulsions and Foams: Fundamentals and Applications from Micro to Macro

Key Dates:

18 June 2018

Abstract Submission Opens

2 July 2018

Online Registration Opens

3 September 2018

Abstract Submission Deadline

25 October 2018

Notification of Acceptance

9 November 2018

Presenter Registration Deadline

16 November 2018

Early Bird Registration Deadline

ACIS Plenary Lecturer



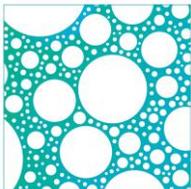
The first ever ACIS public lecture will be held on Monday 4th February, with a presentation from **Professor Ole Mouritsen**. His career as a 'gastrophysicist' working at the intersection of colloids and food with a passion for science education, will ensure a fascinating event attracting public, industry and government attendees as well as conference goers, giving great exposure for the society and for colloid science.

A.E. Alexander Lecturer



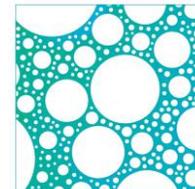
Prof. Dr. Regine von Klitzing from the Dept of Physics, Technische Universität Darmstadt, Germany is the 2019 A. E. Alexander Lecturer. She is famous for her contributions to the structuring and dynamics of polymers and colloidal dispersions under geometrical confinement.

A new initiative to build the colloid science community's awareness around how to translate our research towards impactful outcomes with a commercial end point will be held at ACIS 2019. The Commercialisation and translation session on **Wednesday 6th February** will comprise two parts – talks and discussion by experts in intellectual property (university and industry speakers), business development (university), an academic with translation experience, and at least two industry representatives at the 'coal face'. This will be followed by a 'shark tank' session where ECRs (or anyone) with an idea to pitch can engage the panel for feedback – but beware of those sharks! This



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promises to be a great experience for ECRs and a bit of fun as well. The sessions are designed to be just before the conference dinner to enable further networking with our assembled experts during the evening.



Could childcare help you to attend ACIS more effectively? ACIS is also keen to explore opportunities for organised and potentially subsidised childcare at the meeting – please go to [Click here to view the survey](#) and let us know your thoughts.

IACIS2021

As you may be aware, the next International Association of Colloid and Interface Scientists meeting will be held in Brisbane. This important meeting, held every 3 years, has not been held in Australia since Adelaide in 1994, making this a very significant occasion for the Australasian colloid and interface community. The details are:

Dates: 21-25 June 2021

Venue: Brisbane Convention & Exhibition Centre

Conference chairs: [Prof Ian Gentle](#) (UQ) & [Prof Greg Warr](#) (USyd)

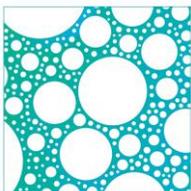


There will be many opportunities to participate in the conference organization, so keep an eye out for further details in coming months.

ASCASS2019

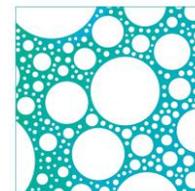
The 8th Asian Conference on Colloid and Interface Science will be held in Katmandu, Nepal, 25-28 September 2019! More details coming soon! (<http://www.ascass.org/accis2019.html>)





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Kia Ora – Greetings from New Zealand!

Catherine Whitby

Senior Lecturer in Chemistry, Massey University



I am not long back from attending the 8th International Colloids Conference in Shanghai. This was a welcome break before I had to start marking our first semester exam scripts! The conference was organised by [Julian Eastoe](#) (Professor of Chemistry at Bristol University and Co-Editor of Journal of Colloid and Interface Science) and his team and was a great success. There were about 200 delegates from Asia, Europe and America.

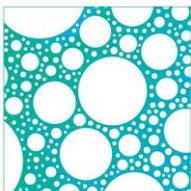
We were hosted at Fudan University by local organiser [Gengfeng Zheng](#) (Professor of Chemistry and Co-Editor of Journal of Colloid and Interface Science) and his research team. The conference ended on a high note for the editorial team with the announcement that impact factor of JCIS is now 5.1.

The conference format involves 2 plenary sessions and 4 keynote presentations each day plus breakout parallel sessions of oral presentations and poster sessions. There were over 50 seminars in total and 130 poster presentations. Plenary speakers at the conference included [Brad Chmelka](#) (University of California) and [Erica Wanless \(University of Newcastle\)](#).

For me, highlights of the conference included meeting:

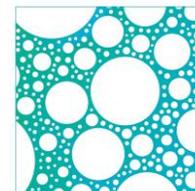
- [Aaron Elbourne \(RMIT University\)](#) who presented his research into engineering nanostructured surfaces with antimicrobial properties. Together with [Elena Ivanova](#) and [Russell Crawford](#), Aaron discovered that natural surface structures with high aspect ratios prevent the formation of films by microbes at the surfaces of medical implants. They are working on making biocompatible, antimicrobial surfaces that mimic these natural surfaces.
- [Rachel O'Reilly \(University of Birmingham\)](#) who gave a keynote lecture on her research into using semi-crystalline polymers for controlled self-assembly. [Her research group](#) has pioneered the crystallisation-driven self-assembly of poly(L-lactide) (PLLA)-based block copolymers. They synthesised 2D nanomaterials from these block copolymers which have applications in nanomedicine.
- [Jingcheng Hao \(Shandong University\)](#) who gave a keynote lecture on his research into hydrogels based on agarose that are self-healing and can adhere to human tissue and are potential wound dressings. His research team have pioneered the development of hydrogels through dynamic covalent Schiff-base linkages by simply mixing conjugates of agarose-ethylene diamine with dialdehyde-functionalized polyethylene glycol solutions.

A special feature of this conference series is [Julian Eastoe's achievement of gender balance of keynote and invited speakers](#). Julian's efforts to make this a normal occurrence give this conference series a special vibe and make it an important meeting forum for colloid scientists. The next conference will be held at Sitges, Barcelona, Spain in June, 2019.



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OpenDrop- an open source application for performing interfacial tension measurements

Joe Berry

Lecturer and Research Fellow in Chemical Engineering, University of Melbourne



Everyone knows that the best bit about being a postgrad in colloid & interface science is all the interfacial tension and contact angle measurements you get to do! The only drawback is the cost of commercial tensiometers, which can cost anywhere between \$40K - \$100K. However, with the release of our free, open-source pendant drop & contact angle fitting software OpenDrop, you can build your own tensiometer that is more accurate than commercial options for a fraction of the cost (all you need is a

camera). OpenDrop, released under the GNU GPL license, is written in the widely used and highly portable Python language, and is available for free at www.opencolloids.com (along with installation instructions). OpenDrop has been tested on Ubuntu, Mac OSX, and Windows operating systems. There are no copyright restrictions at all if you use the software for teaching and/or research. A new release will be forthcoming in the next couple of months that will include contact angle measurement capability (a beta version is currently available for use on request). OpenDrop is open-source, and if you fancy yourself as a programmer, then any improvements or modifications are more than welcome.

If you are interested in installing & using the software, adding to the functionality, or if you have any questions or feedback, please don't hesitate to contact us at: opendrop.dev@gmail.com

For more information on the technique and the software, see our publication at Berry, J. D., Neeson, M. J., Dagastine, R. R., Chan, D. Y. C., & Tabor, R. F. (2015). Measurement of surface and interfacial tension using pendant drop tensiometry. *Journal of Colloid and Interface Science*, 454, 226–237. <https://doi.org/10.1016/j.jcis.2015.05.012>

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Activities

Join our Awards, Communications, Conferences and Events Committees

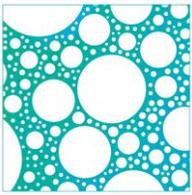
ACIS needs its members to be actively engaged. Please let us know if you would like to be involved in the committees that will run the activities of the Society: *Awards; Communications; Conferences and Events*. Or if you would like to propose other activities we should be running. **We especially invite students and early-career researchers to become involved.** Please email your interest to acis@colloid-oz.org.au.

Visiting Scientist Register

Are you planning to host a visit by an outstanding scientist in the colloid and interface field? Why not let ACIS members know about the visit? We aim to keep track of visiting scientists, to facilitate their introduction to the Australasian scientific community. Please email details of the visit to acis@colloid-oz.org.au.

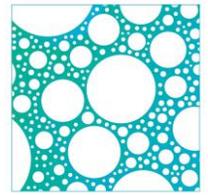
ACIS Membership

Please encourage your colleagues, students and industrial partners working in the field of colloids and interface to join us. General membership is \$100 per annum. The membership year is from 1st July each year. Memberships paid after this date are valid until 30th June of the following year. More information is available on our website <http://colloid-oz.org.au/>.



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Use our LinkedIn Group to tell people your news

ACIS is now present on LinkedIn. Please join our LinkedIn group and post discussion items on job ads, conference calls, and interesting facts about the wonderful world of colloid and surface science.

The Newsletter team is:

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Liam Scarrett - lsca1817@uni.sydney.edu.au

