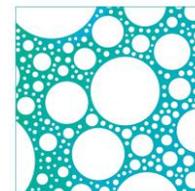


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ACIS Newsletter – Issue 10, June 2016

Welcome

Dear members,

Welcome to our tenth issue of ACIS News! We produce a quarterly newsletter - sent around in March, June, September, and December - to keep ACIS members informed of our initiatives and for members to directly communicate with their Society. Please send your suggestions and items for the next newsletter to C.P.Whitby@massey.ac.nz.

ACIS 2017 News

Registration and abstract submissions now open



The next [Australian Colloid and Interface Symposium](https://acis.wildapricot.org/ACIS2017) will be held from 29th January - 2nd February 2017, at Opal Cove Resort in Coffs Harbour. This biennial conference (<https://acis.wildapricot.org/ACIS2017>) is the major international conference in Australia for colloid science. Over 150 delegates typically attend, making it an ideal event for meeting colleagues and for planning collaborations and grant applications. The conference is being organised by Gunther Andersson (Flinders, Chair), Bryn Coad (UniSA, Co-Chair), Vince Craig (ANU, Treasurer) and Rico Tabor (Monash, Social Program Coordinator). The venue and location are excellent. [All that is needed is the essential ingredient – YOU – so submit your abstract.](#)

Announcing the plenary speakers



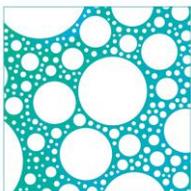
Greg Warr (USydney) will be the 2017 A.E. Alexander Lecturer. He was awarded this lectureship based on his outstanding research into the behaviour of amphiphiles in bulk phases, colloidal systems and at interfaces, and for his contributions to the Australian colloid science community. Greg is a Professor in the School of Chemistry at The University of Sydney. He is a former chair of the RACI Colloids Division, and has served on the Editorial Advisory Boards of Langmuir, The Journal of Colloid and Interface Science, and The Australian Journal of Chemistry.



The A.E. Alexander Lectureship commemorates Professor Albert 'Alex' Alexander FAA FRACI, who was Professor of Physical Chemistry at the University of Sydney from 1957-1970. It was established in 1978 by the University of Sydney and the RACI Division of Colloid and Surface Chemistry. The award was transferred to ACIS in 2014.

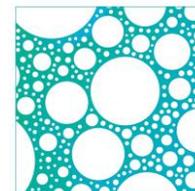


Kathleen Stebe (University of Pennsylvania) will be the ACIS Plenary Lecturer. She was awarded this lectureship based on her outstanding research into non-equilibrium interfaces. Kathleen was appointed as Richer and Elizabeth M. Goodwin Professor of Engineering and Applied Science at the University of Pennsylvania in 2008. In 2010 she was named a Fellow of the American Physical Society for her “lasting contributions to the physics of fluid-fluid interfaces, and in particular the discovery of surface re-mobilization and other surfactant phenomena”. Kathleen is an Associate Editor of the RSC Journal Soft Matter. The ACIS Plenary Lectureship was established in 2015. It is awarded to an international scientist who has made original and outstanding contributions to colloid and interface science.



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ACIS 2017 news continued

Announcing the themes

1. Thin Liquid Films and Surface Coatings

Chiara Neto (USydney) and Tim Davey (Dulux)



2. Hierarchical Assembly of Nanomaterials

K. Swaminathan-Iyer and Gordon Xu (UQ)



3. Biointerfaces

Bryan Coad (UniSA), Laurence Meagher (Monash),
Ingo Koepfer (Flinders) and Gunther Andersson (Flinders)



4. Nanobubbles

Vincent Craig (ANU) and Xuehua Zhang (RMIT)



5. Controlled Release of Bioactives

Wye-Khay Fong (Monash) and Nicky Thomas (UniSA)



6. Scattering and Self-Assembly

Charlotte Conn and Rico Tabor (RMIT)



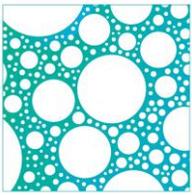
7. Frontiers in Colloid and Interface Science

Raymond Dagastine (UniMelb) and Alison Tasker (UQ)



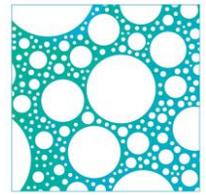
UK Colloids 2017

This is the third conference in this triennial series and will be held from July 10th – 12th in Manchester. It is organised by the RSC Colloid and Interface Science Group and the SCI Colloid and Surface Chemistry Group. It will provide a perfect opportunity for researchers to meet, network and learn about the latest discoveries in the field of colloid science. Abstracts are due in March, 2017. The plenary speakers are Debora Berti (University of Florence), Vinny Manoharan (Harvard University) and Paul Mulvaney (UMelb). Keynote speakers include Marianne Ashford (AstraZeneca), Eric Dufresne (ETH Zurich) and Rico Tabor (Monash).



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ACIS site visit to Dulux R&D labs in Melbourne



In April, 20 ACIS members attended a tour of the Dulux Innovation Centre located in Clayton, Melbourne. The tour was a chance for ACIS members to see how colloid and interface science is applied in a consumer product such as paint.

The visit commenced with an overview of the chemistry of paint from Dulux Research Manager and ACIS board member Tim Davey. The visitors were then taken around the laboratories on site by members of the Dulux staff to learn about how paint is made and tested, how latex polymers are synthesised, how the durability of exterior paint is assessed and how colour is delivered in paint.

The site visit finished with a question and answer session that included a discussion about life in industry and career paths beyond university. A short survey at the end confirmed that the visit was a great success, with many positive comments and requests for further industry site visits. Planning has already started on making more of these types of events happen in the future.



The Dulux Innovation Centre, Clayton, Melbourne

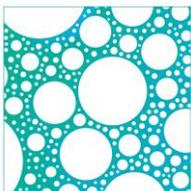


The Dulux Dog was in the foyer to greet the visitors



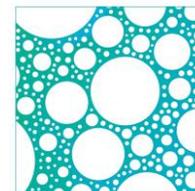
Use our LinkedIn Group to tell people your news

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.



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Meet some of your ACIS Board members



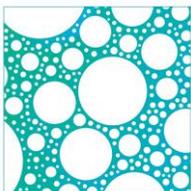
Chiara Neto,
University of Sydney
President

Since 2007 I lead the Nano-Interfaces Lab within the Key Centre for Polymers and Colloids at the University of Sydney, having obtained my PhD at the University of Florence (2001), an ARC post-doctoral fellowship at the Australian National University and having done postdocs in Ulm and Saarbrücken. My research interest is in the investigation of liquid/solid interfaces on the nanoscale, including surface wettability, thin polymer films, pattern formation, and control of interfacial slip. I have been Director of ACIS since its foundation in 2012, and I enjoy greatly the challenge and the opportunity offered by ACIS. As Director I have contributed to establishing the Constitution of the Society, improving communication with the membership through the quarterly newsletter and LinkedIn group, and enlarged the reach and base of the Society through national and international initiatives. In 2016 I am keen to establish the leadership of ACIS on gender equity issues, and further expanding the range of scientific activities ACIS organises and promotes.



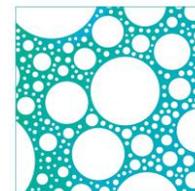
Laurence Meagher
Monash University
Vice-President

Laurence Meagher is Professor of Materials Science and Engineering at Monash University and Deputy Director/Director of Research at the Monash Institute of Medical Engineering. I have been a member of the Colloid and Interface Science community for the last 30 years or so. I obtained my PhD in the direct measurement of interaction forces from the Australian National University in 1996. I subsequently carried out postdoctoral research at the University of Illinois, Champaign-Urbana and at the University of Melbourne, before joining CSIRO in 1999. At that time I turned my attention to bio-interfaces and have been working both in applied fundamental and commercially focused bio-interfaces research since that time. I have been a Director of ACIS since 2014 and am currently the chair of the Awards and Prizes Committee. In previous years I have also been on the ACIS conference organising committee. My personal goal in being part of the ACIS leadership is to ensure that the society is relevant and represents the needs of the membership, to help broaden the engagement of the society with bio-interfaces in a significant way, to help rise the profile of the society, to actively work to increase the membership, to encourage equity and access and to help connect the society to traditional and non-traditional industries.



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Vincent Craig
Australian National University
Honorary Treasurer

I completed both my B.Sc. (Hons. in Chemistry, 1993) and Ph.D. degrees (Research School of Physics, 1997) at the ANU before postdoctoral positions at UC Davis, California and the University of Newcastle, NSW. I was awarded an ARC Postdoctoral fellowship (1998-2001), an ARC Research Fellowship (2001-2006) and an ARC Future Fellowship (2008-2013). I've also spent time living and working in Sweden, Japan, Cambodia and China. My research interests include nanobubbles at surfaces and in bulk, the direct measurement of surface forces both quasistatic and dynamic, interfacial adsorption of surfactants and polymers, specific ion effects and bubble coalescence in electrolyte solutions. I've been a Director and Treasurer of ACIS since its inception. I plan to step down at the next AGM from both these roles. ACIS provides a great focal point for Colloid and Interface Scientists in Australia. With its flexible governance arrangements it can be whatever the membership desires. So I encourage everyone to consider getting actively involved. ACIS can also provide a pathway for building networks and collaborations worldwide and I am advocating that we build much closer links with our Asian neighbours.



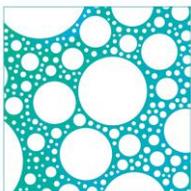
Rico Tabor
Monash University

I joined Monash in 2012, having arrived in Australia in 2009 to undertake a post-doctoral position at the University of Melbourne. My PhD studies were at the University of Bristol in the UK, with a focus on self-assembly and adsorption phenomena in non-aqueous solvents. My current research encompasses the properties and aggregation of novel surfactants and nanomaterials, with a particular focus on responsive colloidal systems. I have been a passionate member of the colloid community since arriving in Australia, and am a foundation member of our society. I have been a director of ACIS since the start of 2016, and my vision for the society is to provide a platform for sharing information, networking and the advancement of our members. Our society must be relevant to both academic and industrial practitioners, with a strong voice from students.



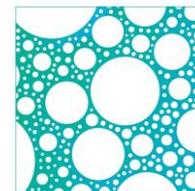
Ray Dagastine
University of Melbourne

I lead a research group in interfacial phenomena focused on the interactions between drops, bubbles and particles that control soft matter in emulsions, foams and dispersions within the Particulate Fluids Processing Centre at the University of Melbourne. I completed my PhD at Carnegie Mellon University (2002) in Chemical Engineering followed by a US National Science Foundation International Postdoctoral Research Fellowship in the School of Chemistry at the University of Melbourne (2002-2004) prior to joining the Department of Chemical and Biomolecular Engineering in 2004. I am also the initiative chair of the Materials Research Hallmark Initiative at the University of Melbourne and the academic leader of the Materials Characterisation and Fabrication Platform. I have been a director of ACIS since 2015, and my vision for the society is to engage its members on the local, national and international level. I think our society does a good job on the national and international scale through our conference calendar, where I hope to see more local activities but that still hold a more general focus. For example, the "Sydney Surfaces and Soft Stuff" run by the UNSW School of Chemistry (well done Stuart Prescott!) is a great example of a soft matter working group type activity where I hope we can link in with UNSW and initiate something similar in Victoria and maybe even Queensland over the next year.



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Graeme Gillies

Fonterra Co-operative Group Limited

I am a senior research scientist at Fonterra, which is a large dairy cooperative based in NZ. I did my PhD using AFM to study the deformation of small PDMS elastomers and droplets. After completing my PhD I took post – doc positions at the Max Plank Institute for polymer research, university of Geneva and the Adolphe Merkle Institute, mostly focusing on colloid probe AFM and light scattering. My position at Fonterra is primarily research based, solving problem that will enable the development of products 5 – 10 years from now. I spent my first four years at Fonterra applying soft matter concepts to the mass production of high moisture mozzarella, which included collaborations with various NZ Universities. The success of this project lead to a significant expansion of our Clandeboye mozzarella plant and allowed me to expand my research activities to whipping cream, UHT milks.

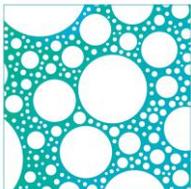
I came to ACIS as a pathway to become more in tune with new developments in the colloid community and not lose sight of fundamental science. Colloid science tends to be the intermediate between food chemistry and process engineering. In the past few years some colloid physics has made significant advances in some notorious non-equilibrium and multivariate food problems. Nonetheless colloid and material science remains under appreciated and underutilized in the food world and I'm really keen to see this change.



Tim Davey

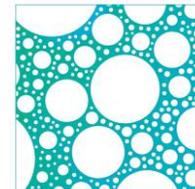
Dulux Australia

I am currently the Research Manager with Dulux Australia in Melbourne and lead a team developing new binders for waterbased decorative coatings. The primary focus of our work is to deliver property benefits in coatings, including improved washability and durability. Prior to commencing with Dulux, I completed a BSc (Hons) in chemistry at Victoria University of Wellington, New Zealand, and then went on to do a PhD in chemistry at the University of Otago. My PhD was focused on synthesising and characterising a range of novel bolaform surfactants. I then undertook post-docs at the CNRS in Strasbourg, France, and the University of Sydney, on projects involving gemini and fluorocarbon surfactants. I became a member of the ACIS board in early 2015 and have taken on the role of managing the society's website, as well as looking at ways to bring academia and industry closer together.



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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.

Sponsorship of Events

ACIS Sponsorship is available for events (symposia, workshops, industry networking events, and short courses) held in Australia or New Zealand and organised by ACIS members for the benefit of the colloids and interface science community. Prospective event organizers, who wish to request ACIS endorsement and sponsorship, should supply the information requested in the form available on the website <http://colloid-oz.org.au/> at least three months in advance.

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/>.

Future Events

6th International Colloids Conference (19 - 22 June, 2016 Berlin)

<http://www.colloidsconference.com/>

EUFOAM 2016 (3 - 6 July, 2016, Trinity College, Dublin, Ireland)

<http://eufoam2016.iopconfs.org/home>

43rd Annual Meeting of the Controlled Release Society (17-20 July, 2016, Seattle, Washington, U.S.A)

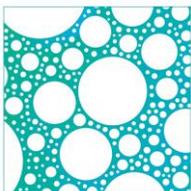
<http://www.controlledreleasesociety.org/meetings/annual/Pages/default.aspx>

27th International Congress on Rheology (8-13 August, 2016, Kyoto)

<http://icr2016.com/>

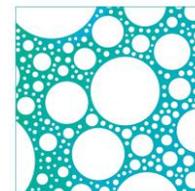
30th Conference of the European Colloid and Interface Society (4-9 September, 2016, Rome)

<https://ecis2016.org/>



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4th International Conference on Soft Matter (12-16 September, 2016, Grenoble)

<http://www.ismc2016.org/>

International Session at the 67th Divisional Meeting on Colloid & Interface Chemistry (22-24 September, 2016, Hokkaido, Japan)

http://colloid.csj.jp/div_meeting/67th/E/index.html

20th International Conference on Miniaturized Systems for Chemistry and Life Sciences (9-13 October, 2016, Dublin, Ireland)

<http://www.microtas2016.org/>

8th International Conference on Advanced Materials and Nanotechnology (12-16 February, 2017, Queenstown) Abstract submissions close on 31 August 2016 (<http://www.amn8.co.nz>)

Job Ads

Senior Research Engineer - Mineral Processing, Callaghan Innovation

Callaghan Innovation is looking to recruit a Senior Research Engineer with experience in mineral processing to join their Advanced Materials Group. The group pursues the research and development of novel products and processes for New Zealand firms operating in the High Value Manufacturing Sector. Its work spans the fields of titanium metallurgy, advanced ceramics, cementing systems, optical sensors, coatings, high temperature processing, Photonics and 3D printing. The closing date is 17 July 2016. The post is advertised at:

<https://vacancies.callaghaninnovation.govt.nz/jobdetails/ajid/aLWf7/Senior-Research-Engineer-Mineral-Processing,4403.html>

Lecturer / Senior Lecturer in Chemistry, University of Melbourne

The School of Chemistry seeks to appoint up to two outstanding academics in the discipline of Chemistry. There may be a preference for an inorganic chemist for one of the positions. The closing date is 27 July 2016. The post is advertised at:

<http://jobs.unimelb.edu.au/caw/en/job/888445/lecturer-senior-lecturer-in-chemistry-up-to-2-positions>

Lecturer / Senior Lecturer in Chemistry, Auckland University of Technology

The School of Science seeks to appoint an academic in the discipline of Chemistry. In particular they welcome applications in Organic Chemistry, Analytical Chemistry and Physical Chemistry. The closing date is 15 July 2016. The post is advertised at:

<https://careers.aut.ac.nz/jobdetails?ajid=0Bab9>

Please email us ads for PhD and postdoc positions in the area of colloids and interfaces.

The Newsletter team is:

Catherine Whitby – C.P.Whitby@massey.ac.nz

Chiara Neto - chiara.neto@sydney.edu.au

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

