

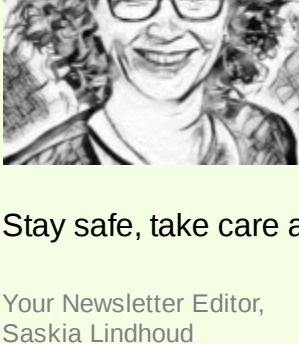


International Association of Colloid and Interface Scientists

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From your Newsletter Editor



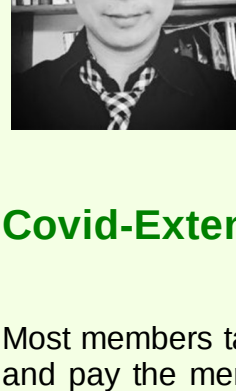
Here is the July newsletter. A mixture of IACIS announcements, an update about the IACIS 2022 conference in Brisbane and two showcase your publications. I hope you enjoy reading it.
If you have information that is relevant for our community, send me an email so it can be included in our next NL, deadline September 15.

Stay safe, take care and make the best of it.

Your Newsletter Editor,
Saskia Lindhoud

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From the IACIS Hon. Secretary and Treasurer



There are several announcements from the IACIS Hon. Secretary and Treasurer, Dr. Wuge Briscoe, in this section of the newsletter.

Covid-Extension of IACIS Membership

Most members take up their membership by attending the triennial IACIS meetings and pay the membership fees for 3 years. As approved by the IACIS council, the membership for the IACIS will be extended for ~ 1 year without charge till June 2022 due to the postponement of the IACIS 2021 meeting. Concurrently, it has also been approved that the current presidency held by Professor Hans-Jürgen Butt and the current council membership (see <https://www.iacis.net/index.php/about-iacis/>) will also be extended till June 2022 when the new President-elect and new council members will be elected at the General Assemble at the next IACIS meeting.

Account Statement

The current balance for the IACIS account is £18,862.48. I [attach the statement](#) from Kerry Shepherd, the Faculty Assistant Accountant at the University of Bristol, approved by the IACIS Standing Committee and the Council. As you can see, due to covid-19 and our free membership at the moment, there are only two transactions since the account was transferred from Wageningen to Bristol. These were for hosting the website (2019-2021; by our diligent webmaster Saskia) and the IUPAC subscription.

IACIS Lifetime Achievement Award Committee

The call for the nomination (deadline 31st Oct 2021) for this award is detailed in the message from Björn Lindman below. The Award rules stipulate that "The Chair of the Committee will be appointed by the Council for a period usually of two consecutive Conferences. The Committee further includes the Chair of the forthcoming IACIS Conference, and the Chairs of the past three IACIS Conferences." In according with this, the current composition is: Björn Lindman (Committee Chair, Lund), Kazuo Kurihara (Tohoku, 2012 Conference chair), Hans-Jürgen Butt (Mainz, 2015 conference chair), Mieke Kleijn (Wageningen, 2018 conference co-chair with Ger Koper), and Ian Gentle (Queensland, 2022 conference co-Chair with Greg Warr). As the IACIS Secretary, I will assist with collating nominations at the request of Björn Lindman.

Pre-announcement for nominations and elections for the Council and the President-elect

Point 10 in the constitution states: *"The Council shall consist of a President, President-elect (Vice-President), Immediate Past President, Honorary Secretary and Treasurer, and twelve Ordinary elected members. The Council may o-opt additional members not exceeding eight. One of these shall be the Newsletter Editor. The other places shall be used to ensure a regional balance, to allow representation of regional organisations with objectives similar to those of the International Association and to maintain a balance between fundamental and applied aspects."* Six of the current council members will come to the end of their tenure at the 2022 June IACIS meeting. In addition, the IACIS will also seek the nomination for a new President-elect to join the Standing Committee. Up to 8 co-opt council members may also be appointed by the council to allow wide and fair regional representation of the global colloids community. The deadlines and details for these nominations and elections will be circulated soon after the consultation process is complete with the IACIS Council.

Your Hon. Secretary
and Treasurer, Wuge
Briscoe

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Showcase your publication

A side effect of the current pandemic is the lack of opportunities for young scientists to present their work at international conferences. Therefore we would like to invite PhD students to showcase recent publications in the IACIS Newsletter. The idea is to write a short text in which you explain about your PhD topic, your recent publication and why it is interesting for our community. Detailed guidelines can be found [here](#).

The aim is to include 2 or 3 showcase texts in each Newsletter, preferably from three different continents. The next Newsletter will appear beginning of October, the deadline for submitting your showcase text is September 15. In this newsletter there are two contributions from Australia, please find the showcase from Sam Peppou-Chapman and Benjamin Lobel below.

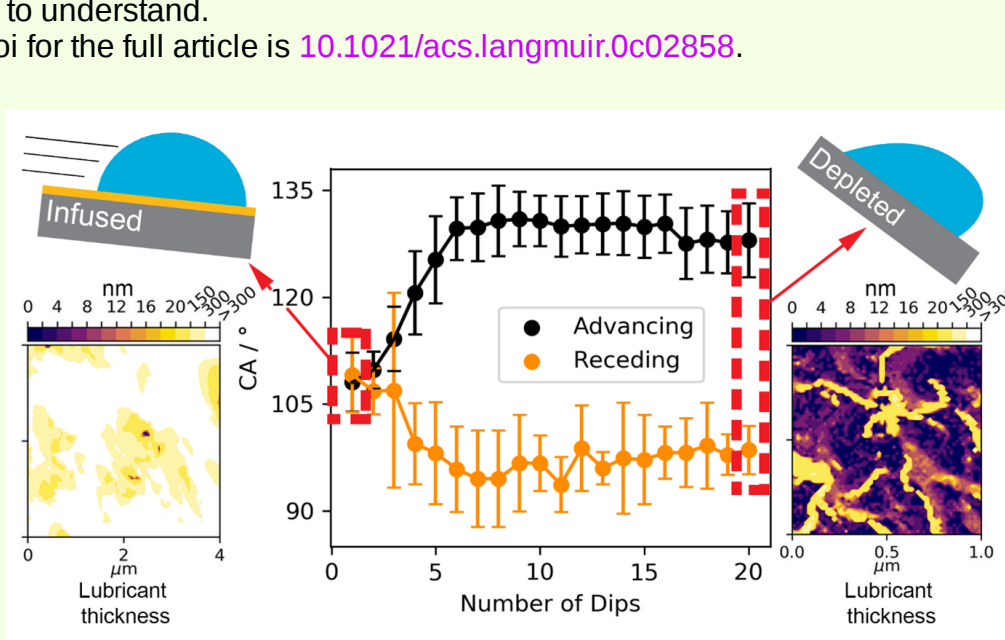
Your Newsletter Editor, Saskia Lindhoud

Depletion of the Lubricant from Lubricant-Infused Surfaces due to an Air/Water Interface

My name is Sam Peppou-Chapman and I just completed my PhD under the supervision of Prof Chiara Neto at The University of Sydney, studying the distribution of lubricant on lubricant-infused surface. These surfaces have many favourable properties that make them attractive in research and applications in chemistry, physics, and engineering. Notably, they are exceptionally good at stopping biofouling without the need of toxic chemicals.

The lubricant which affords the surfaces their favourable properties can and will deplete from the surface under external forces. In this article we investigate the effect of a mobile air/water interface as it passes over the surface, as would occur at the water line on a ships' hull if the hull was coated with a lubricant-infused surface. We use a combination of automated contact angle calculations as the surface passes through the air/water interface and mapping of lubricant distribution on the nanoscale to identify the gradual loss of lubricant as a function of lubricant and surface chemistry. We show that an optimised chemistry combination can result in long lasting lubrication and a poorly designed one can result in the lubricant depleting very quickly from the surface. I am particularly proud of the AFM mapping method that allows us to reveal the nanoscale details of lubricant distribution, especially the maps that show the redistribution of the lubricant. Watching how the lubricant redistributes over time made the wetting dynamics of the lubricant much easier to understand.

The doi for the full article is [10.1021/acs.langmuir.0c02858](https://doi.org/10.1021/acs.langmuir.0c02858).



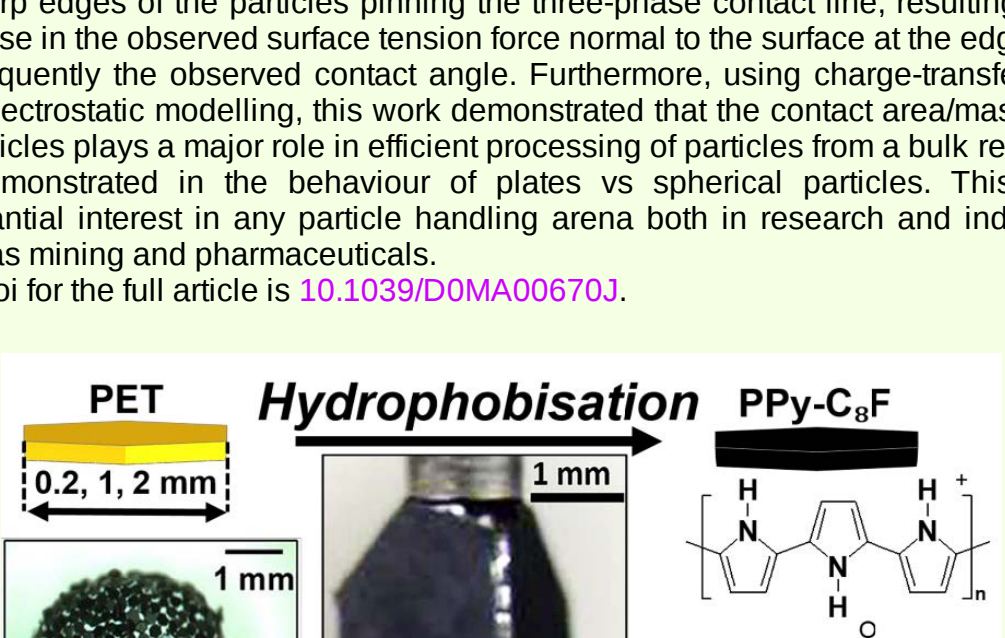
Formation of liquid marbles and aggregates: rolling and electrostatic formation using conductive hexagonal plates.

My name is Benjamin Lobel and I am a PhD student at The University of Newcastle, Australia. My supervisors are Prof. Erica Wanless, Prof. Grant Webber and Dr. Peter Ireland. My PhD focusses on understanding the physicochemical properties that lead to the successful transfer of particles to a pendent droplet using a non-uniform electric field to form liquid marbles.

This work in collaboration with Prof. Syuichi Fujii at Osaka Institute of Technology, Japan used large (between 200 and 2000 µm in width and 40 µm thick) hexagonal PET plates that had been coated with conductive polymer with a range of wettability. We explored the impact of shape and sharp edges on the stabilisation of a water droplet both using the traditional rolling method of liquid marble formation and the electrostatic particle delivery method.

We were able to successfully form liquid marbles using both methods, and observed surprising meta-stability exhibited by low contact angle particles. This was attributed to sharp edges of the particles pinning the three-phase contact line, resulting in an increase in the observed surface tension force normal to the surface at the edge, and consequently the observed contact angle. Furthermore, using charge-transfer data and electrostatic modelling, this work demonstrated that the contact area/mass ratio of particles plays a major role in efficient processing of particles from a bulk reservoir as demonstrated in the behaviour of plates vs spherical particles. This is of substantial interest in any particle handling arena both in research and industries such as mining and pharmaceuticals.

The doi for the full article is [10.1039/D0MA00670J](https://doi.org/10.1039/D0MA00670J).



Brief synthetic regime of particle modification and liquid marbles stabilised by large hexagonal plates using both the rolling (left) and electrostatic method (right)

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IACIS2022 Brisbane Update



Planning is progressing for the 17th Conference of the International Association of Colloid and Interface Scientists to be held in Brisbane, Australia, from June 12-16, 2022. <https://www.iacis2022.org>. IACIS2022 will be held at the [Brisbane Convention and Exhibition Centre](#) (BCEC) situated in South Bank in downtown Brisbane. BCEC is easily accessible by car, bus, train or CityCat/ferry along the Brisbane River, and is surrounded by accommodation options.

IFor the first time (and in response to lingering international travel uncertainties), IACIS2022 will be run as both an in-person and an online event. All presentations will be livestreamed and recorded so that they remain available to all registrants for a limited time after the conference through a dedicated platform.

You'll no longer have to choose which talks to attend, just which ones to record. *All participants will gain access to all talks post-event as an on-demand recording.*

When registration opens later this year, you will be able to register for either in-person or online participation. If you choose online registration, you will have the option to upgrade to in-person attendance if you are able or choose to travel, preserving all early-bird or other privileges. In-person registration will give you access to all online features as well, of course. Check the website regularly, or follow us on various social media for updates on @IACIS2022.

We look forward to an exciting scientific program spanning all areas of colloid and interface science. In addition to the IACIS Lifetime Achievement Award lecture (nominations called elsewhere in the newsletter), IACIS2022 will host the [AE Alexander plenary lecture](#) of the Australasian Colloid and Interface Society. We are also pleased to launch the IACIS Emerging Investigators Awards thanks to very generous support from KAO Corporation.

Students, don't forget the [Koala Lloyd competition](#) for a free registration (online or in-person). As we are slowly able to once again move around more freely, share your photos of Koala Lloyd also getting out and about on social media with the tags @IACIS2022 | #IACIS2022 | #koalalloyd.

As we develop our new hybrid conference mode, we are also reaching out to sponsors from around the world who are interested in supporting IACIS2022 and the future of colloid and interface science. For more information or to discuss the added possibilities that the hybrid conference offers, please contact our professional conference organisers sponsorship and exhibition manager, Mr Robert Gunn (rgunn@arinex.com.au)

We are committed to creating an inclusive, accessible, supportive, and harassment-free environment for scientific exchange for every participant, regardless of gender, sexual orientation, disability, physical appearance, race, or religion.

We look forward to seeing you in Brisbane, or online.

Ian Gentle and Greg Warr
on behalf of the IACIS2022 Organising Committee.

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Nominations for the IACIS Lifetime Achievement Award

Dear IACIS member,

In 2010 IACIS introduced the IACIS Lifetime Achievement Award. This prestigious award was established to recognise the awardee's outstanding, lifetime contribution to colloid and interface science research, and also his/her contributions to IACIS.

We are seeking nominations for the award and accompanying plenary lecture to be presented in June 2022 at the next IACIS conference in Brisbane, Australia (conference website [IACIS2022](https://www.iacis2022.org)).

The first IACIS Lifetime Achievement Award was made in Japan in 2012 to Tom Healy, the second in Germany in 2015 to Björn Lindman, and the third in Rotterdam in 2018 to Helmuth Möhwald. This award replaced the previous "IACIS Lectureship" Award, recipients of which were, in sequence: Hans Lyklema, Egon Matijevic, Bob Hunter and Brian Vincent.

If you wish to make a nomination, please send the name of your nominee, together with the suggested paperwork, as stated in the attached "rules" , to myself, as chairman of the selection committee, by October 31, 2021, at the latest. Seconders are not a requirement, but if you wish to add the names of other persons supporting a particular nomination that is fine.

Yours sincerely,
Björn Lindman, bjorn.lindman@fkem1.lu.se

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