



International Association of Colloid and Interface Scientists

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From the new IACIS president



IACIS2022 has come and gone, and with it a changing of the IACIS Council.

First and foremost, my thanks goes to the outgoing and now Immediate Past President, Hans-Jürgen Butt. Due to the coronavirus pandemic, Hans-Jürgen served for longer than expected and provided the association with important leadership during a tumultuous period, while also finding time to introduce important innovations like the IACIS Emerging Investigator Awards.

I also want to thank Reinhard Miller who now steps down as immediate past president, and Björn Lindman who has ended his term as chair of the Lifetime Achievement Award Committee. I hope that both of them will continue to provide their wise advice in an unofficial capacity. Welcome to Alidad Amirfazli as President-Elect and Kazue Kurihara as incoming chair of the Lifetime Achievement Award Committee.

Several Council members also completed their elected terms at IACIS2022. I thank Brian Vincent, Russell Crawford, Thomas Zemb, Jasper van der Gucht, Nicholas Abbott and the late Peter Kralchevsky for their many contributions. Following the recent Council elections I am delighted to welcome Peter Dowding, Rei Kakehashi, Erin Koos, Chiara Neto, Karin Schillén, Norman Wagner, and Xuehua Zhang to the IACIS Council for the next six years. Current co-opted council members terms have also ended, and we are in the process of inviting a new group of co-opted members to achieve a broad, diverse representation on the Council.

I'm particularly pleased that the society has elected so many women to the Council, which better reflects our membership. On the subject of membership, I'd like to encourage everyone who was unable to attend IACIS2022 (and thereby automatically become IACIS members until 2025) to stay involved. You can renew your membership manually online here: <https://forms.office.com/r/0mSCfBhkFE>. For only 10 ? per year, you will receive regular updates on IACIS activities and relevant meetings around the world, as well as using the IACIS network to promote your own regional events. As a member you are eligible to nominate colleagues and be nominated or apply for Bursaries, Emerging Investigator, and Lifetime Achievement Awards. You can also nominate to be on the IACIS Council and shape the future of our Association.

The objectives of the Association are to promote international cooperation among colloid and interface scientists, and to encourage advancement and understanding in the field of colloid and interface science. As much as ever before, colloid and interface science is a key discipline that underpins our understanding and enables technological solutions to problems old and new. One of our plenary lectures lecturers at IACIS2022, Prof. Lidia Morowska, highlighted the critical role of the physics of aerosols in understanding coronavirus transmission, and mRNA vaccines are delivered to us using lipid nanoparticles.

As Hans-Jürgen recently reminded us, in challenging times "the role of IACIS to build bridges on individual bases becomes even more important." Please feel free to contact me or members of the Standing Committee or Council with your suggestions to grow and improve our Association.

Greg Warr

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From your Newsletter Editor



A warm welcome, especially to our new members who joined the IACIS in June 2022 after the Brisbane Conference. It is a pity that less people attended the conference than was anticipated and that we have fewer members as a result. Hopefully many people renew their membership online:

<https://forms.office.com/r/0mSCfBhkFE>.

Via this quarterly Newsletter we inform you about what is happening in the field. If you have information that you would like to share, for instance about conferences, book reviews or, if you would like to showcase your publication, send me an email so it can be included in our next NL, deadline December 15.

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

Your Newsletter Editor,
Saskia Lindhoud

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From Hon. Secretary & Treasurer



The mission of the IACIS to promote colloids science and scientific cooperation is underpinned by its international members. As Greg, our new IACIS President highlighted in his message, with the new initiatives (e.g. the Emerging Investigator Award) introduced, a newly elected council, and the organisation of the exciting IACIS2025 in Alberta, Canada (jointly with the ACS Colloids Symposium) under way, the IACIS will continue to strive to represent and bring together the international colloids community. Following the successful IACIS2022 in Brisbane, we have 332 new members joining IACIS as part of [IACIS2022](#) registration. Additional 34 members have since renewed their membership via [registration](#), with much more easily accessible payment options. This includes three colleagues from the Russian Federation, whose membership fee payment has been postponed till when it becomes logistically possible for it to be made, as approved by the Standing Committee.

I would like to fortify Greg's message on the benefits of the IACIS membership, which include:

- Receiving quarterly electronic Newsletters and contributing to the research highlights
- Eligible for the IACIS Awards (Life Time Achievements Award and Emerging Investigator Award)
- Standing for the Council election
- Standing for the President-elect election (for those who have served on the Council)
- Being nominated to join the Standing Committee
- Voting rights for the Council members and the President-elect
- Eligible to apply for the IACIS Travel Bursaries
- Reduced registration fees for the triennial IACIS conference
- Being part of a truly international network of colloids and interface scientists

As an Associate Organisation of [IUPAC](#), IACIS also has the possibility to engage with IUPAC projects.

We always welcome comments and suggestions from members. Please feel free to get in touch with any of the [IACIS Standing Committee](#) or [Council members](#).

Wuge H. Briscoe

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IACIS Emerging Investigator Award



The IACIS congratulates the Emerging Researcher Award

Winners :
Dan Daniel (IMRE, Singapore)
Anna Klinkova (University of Waterloo, Canada)
William Wong (Aalto University, Finland)

The IACIS Emerging Researcher Award is sponsored by KAO Cooperation

L-R: Emerging Researcher Award Winner William Wong, IACIS President Gregory Warr, Emerging Researcher Award Winner Dan Daniel, IACIS Past President Hans-Jürgen Butt

The IACIS Emerging Investigator Award was presented for the first time at IACIS2022, held on June 26-30, 2002 in Brisbane, thanks to generous support from the Kao Corporation.

Six male and six female finalists were selected. As the primary goal is to recognise research excellence, the committee did not include gender, geography, or other diversity considerations in their determination, but reviewed the final list to ensure fair representation. No changes were made to the list of finalists as a result of this review.

Each finalist was notified and awarded an oral presentation at IACIS2022, scheduled into the first two days of the conference. As a hybrid event, seven presentations were in person and five online. Two jury members were present in person and two participated virtually.

After reviewing the finalists' original nomination documents and watching their presentations, including Q&A, the jury met to decide on the three winners, Drs Daniel Daniel (Singapore), Anna Klinkova Canada) and William Wong (Finland). Drs Daniel and Wong were present in person when the awards were announced at the closing ceremony for the conference. The photographs below capture the announcement. Dr Klinkova was online and was ongratulated separately.

The full report can be found [here](#)

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Showcase your publication

During the pandemic there was a lack of opportunities for young scientists to present their work at international conferences. Therefore we started to invite PhD students to showcase recent publications in the IACIS Newsletter. We have decided to continue this Newsletter item, because it gives an opportunity for young scientists to explain their recent discoveries. 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 January, the deadline for submitting your showcase text is December 15.

Your Newsletter Editor, Saskia Lindhoud

AFM manipulation of EGaIn microdroplets to generate controlled, on-demand contacts on molecular self-assembled monolayers

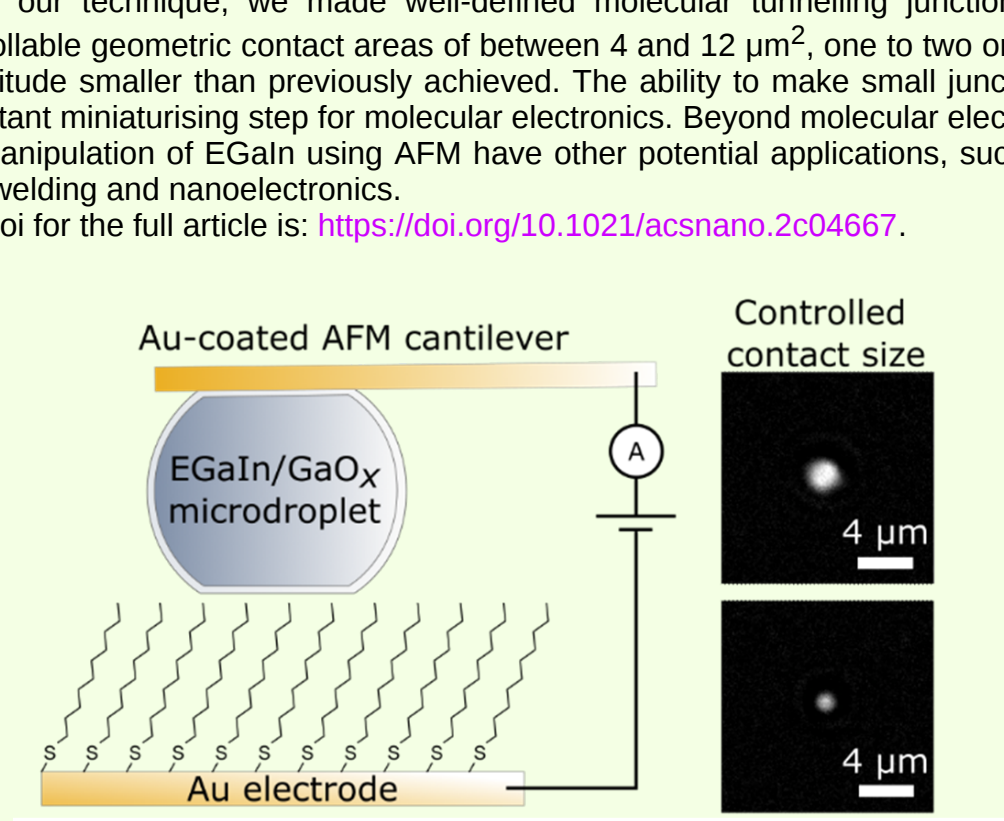
I am Eugene Soh and recently completed my PhD with Prof. Harish Bhaskaran (Advanced Nanoscale Engineering lab, University of Oxford, UK) and with Dan Daniel (Droplet lab, Institute of Materials Research and Engineering, Singapore).

The main goal of my PhD research is to develop new technologies to pick-and-place single to several particles/droplets in the nanometer to micrometer scale for various applications.

TLiquid metal, such as eutectic Gallium-Indium (EGaIn), is important in many research areas, such as soft electronics, catalysis, and energy storage. In our recent article in ACS Nano, we used an atomic force microscope (AFM) to position EGaIn microdroplets and contact self-assembled monolayers (SAMs) of alkanethiols repeatedly and on-demand. The nanoscale positional control and feedback loop in an AFM allow us to control the contact force at the nanonewton levels and, consequently, tune the droplet contact areas at the micrometer scale.

Using our technique, we made well-defined molecular tunnelling junctions with controllable geometric contact areas of between 4 and 12 μm^2 , one to two orders of magnitude smaller than previously achieved. The ability to make small junctions is important miniaturising step for molecular electronics. Beyond molecular electronics, the manipulation of EGaIn using AFM have other potential applications, such as in nanowelding and nanoelectronics.

The doi for the full article is: <https://doi.org/10.1021/acsnano.2c04667>.



By controlling the applied force on the EGaIn droplet on an AFM cantilever, we can tune the geometrical contact area and make well-defined

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51st General Assembly of the German Colloid Society: "100 Years of Colloid Society / Colloid Science - as Modern as Ever"

The 100th anniversary of the German Colloid Society - Kolloid-Gesellschaft - was celebrated during the 51st General Assembly of the German Colloid Society held at the Technische Universität Berlin, Berlin, 28-30 September 2022. The Kolloid-Gesellschaft was founded 1922 in Leipzig.

In a particularly nice and friendly atmosphere created the conference organizers, the biannual meeting of this year gathered many international scientists from different parts of the world. The recent developments in the field of interface and colloid science were presented in contributed talks and posters. The topics of the sessions were 1) Surfactant Science, Membranes, Foams, Microemulsions, Emulsions; 2) mphiphilic Copolymers; 3) Polyelectrolytes; 4) Hydrogels; 5) Nanoparticles and Supracolloidal Assemblies; 6) Responsive Colloids; 7) Characterisation of Colloidal Systems, 8) Theory and Modelling of Colloids and Interfaces, 9) Sustainable Formulations and Colloidal Systems; 10) Microplastic; 11) Applications of Colloidal Systems; 12) Wetting Phenomena; 13) Functional Interfaces. Plenary talks were given by Michael Fates (Cambridge University, UK), Wiebke Drenckhan (Université Strasbourg, France), Junbai Li (Chinese Academy of Sciences, Beijing, China), Eric Furst (University of Delaware, USA), Joachim Venzmer (Evonik, Essen, Germany). During the conference, the following awards were handed out by the Colloid Society (corresponding prize winner in parenthesis): the Ostwald Prize (Paul Mulvaney, University of Melbourne, Australia); the Liesegang Prize (Helmut Coelfen, Universität Konstanz, Germany); the Zsigmondy Scholarship (Juliane Simmchen, Technische Universität Dresden, Germany), the Graham Prize (Peto Schurtenberger, Lunds Universitet, Sweden) and the Steinkopff Prize (Gero Decher, Université de Strasbourg, France). The five best posters were also awarded.

Karin Schillén

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Several PhD and Post-doc positions available in Brazil

We are delighted to inform about open positions for postdocs and PhD students within our thematic project 'Tailoring colloids through supramolecular interactions: from fundamentals to applications' to start between Sept 2022-March 2023. You may find more information about this project and opportunities at www.colloidsbr.com.

We appreciate your support in forwarding this information widely to your groups, colleagues or any other potential candidates.

Please, feel free to direct any related queries to (colloidsbr@gmail.com).

We stress that these positions have no restrictions as far as candidates origin and preferences.

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You receive this newsletter because you are registered as a member of IACIS. If you happen not to be a member, please contact the [Honorary Secretary](#). For comments or suggestions, please contact the [Newsletter Editor](#).