

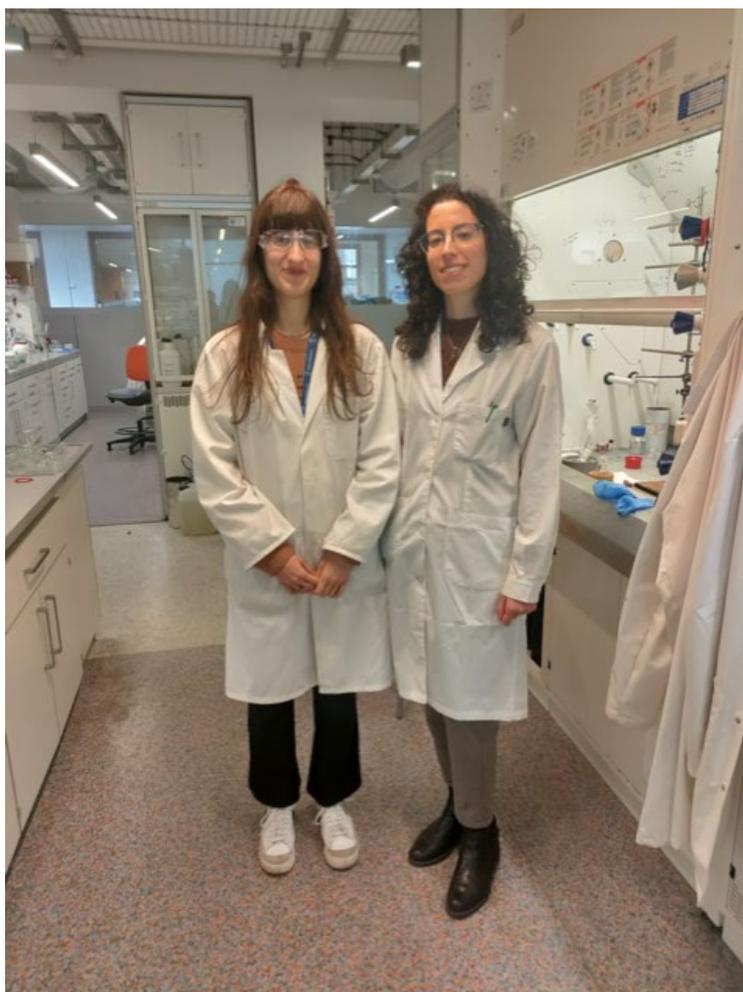


## School of Chemistry News March 2024

### **A very warm welcome to...**

Professor Serena Cussen, who joins the School as a SALI Full Professor in Materials Chemistry. A very warm welcome also to Dr Justin Henthorn, who joins us as an Assistant Professor in Inorganic Chemistry and Royal Society-Science Foundation Ireland University Research Fellow.

The Baumann group welcomes Sabrina D'Ambrosio (University of Milan) and Valeria Napolitano (University of Salerno) as visiting students. We hope you have a great time with us in the coming months.



## Congratulations to ....

Many congratulations to Olivia and Viktorija, who won poster prizes at the British Crystallographic Association Spring Meeting.



The School is delighted that so many of our students have had their outstanding achievements recognised this month. Congratulations to Rosa Fernandez Pison on receiving a College of Science awards in the category of Recognition of Student Achievement. Rosa has been heavily involved in EDI initiatives in the School and this is wonderful recognition of her valuable work.



Congratulations to Saman Mutahir and Aoife Martin on their awards for Recognition of Student Achievement. Aoife is pictured at the College of Science awards day.



Congratulations to Anastasiia Kikishkina (Stage 2), Felix Schlosser and Nicole Perets (Stage 3), Aoife Allen and Emilija Stankeviciute (Stage 4) on their awards at the recent UCD Awards Day.

To celebrate International Women's Day, the UCD College of Science Women in Science Mentoring Awards recognised excellent female mentors, and men who had mentored

women. I know that many students and colleagues in the School of Chemistry were nominated, including Marianne Bore Haarr and Yannick Ortin, and we offer our warmest congratulations to everyone who received this wonderful recognition.

### **New Doctors in the house...**

Congratulations to Karolina Wojtczak, the first PhD student in Joe Byrne's group, who successfully defended her thesis on March 7 at University of Galway. Karol has been a visiting researcher in the lab at UCD for the last six months. She was co-supervised by Prof Paul Murphy and supported by an SFI SIRG Award.

Congratulations also to Cáimhe Niland (McGarrigle Group) on a successful PhD defence.



### **Publications from staff and students in the School**

Congratulations Karl and Gareth on three recent publications:

Griffin, K. & Redmond, G. "A Purely Electronic Analog Memristive Device Based on a Squaraine Nanowire Mesh" *ACS Applied Electronic Materials*, 6, 261 (2024).

Griffin, K. & Redmond, G. "Volatile Memristive Devices with Analog Resistance Switching Based on Self-Assembled Squaraine Microtubes as Synaptic Emulators" *ACS Applied Materials & Interfaces*, 16, 2539 (2024).

Griffin, K. & Redmond, G. "Charge Trapping-induced Current-voltage Hysteresis in a Squaraine Nanowire Mesh Enables Synaptic Memristive Functionality" *Journal of Applied Physics*, 135, 065502 (2024).

Congratulations to Marianne and Kotchakorn on their just accepted article in *EurJOC*. Marianne Bore Haarr, Kotchakorn T.sriwong, Elaine O'Reilly, Commercial transaminases for the asymmetric synthesis of bulky amines, 2024, <https://doi.org/10.1002/ejoc.202400257> (Accepted Article). Marianne took over this

work from a visiting student (Kotchakorn) and really shaped this into a great research article.

Congratulations to colleagues from the school on two recent papers:

Song Y, Hogan M, Muldoon J, Evans P, Caffrey P, Characterisation of Modular Polyketide Synthases Designed to Make Pentaene Analogues of Amphotericin B  
21 Mar 2024 *Molecules* 29(6):1396MDPI AG.

Song Y, Amaya JA, Murarka VC, Mendez H, Hogan M, Muldoon J, Evans P, Ortin Y, Kelly SL, Lamb DC, Poulos TL, Caffrey P, Biosynthesis of a new skyllamycin in *Streptomyces nodosus*: a cytochrome P450 forms an epoxide in the cinnamoyl chain. Mar 2024 *Organic & biomolecular chemistry*.

The publication of a Perspective article in *Chemical Science* marks the 50th paper of the Baumann group since starting at UCD 6 years ago. Well done everybody involved! "Continuous Flow Synthesis Enabling Reaction Discovery." A.I. Alfano, J. Garcia-Lacuna, O. Griffiths, S.V. Ley, M. Baumann *Chem. Sci.* **2024**, 15, 4618-4630: [Continuous flow synthesis enabling reaction discovery - Chemical Science \(RSC Publishing\)](https://doi.org/10.1039/D3SC06808K)  
[DOI:10.1039/D3SC06808K](https://doi.org/10.1039/D3SC06808K)

Jorge, a postdoc in the Baumann group published another paper on his work in *Organic Letters* recently. "Continuous Flow Synthesis of Benzotriazin-4(3H)-ones via Visible Light Mediated Nitrogen-Centered Norrish Reaction." J. Garcia-Lacuna, M. Baumann *Org. Lett.* **2024**, 26, 2175-2179: [Continuous Flow Synthesis of Benzotriazin-4\(3H\)-ones via Visible Light Mediated Nitrogen-Centered Norrish Reaction | Organic Letters \(acs.org\)](https://doi.org/10.1021/acs.orglett.3c03000)

Congratulations to Arlene, Parth and Ruairi on their review article hot off the press! "Recent Advances Exploiting Reactive Intermediates Generated via Continuous Flow Chemistry." A. Bonner, P. Naik, R. Crawford, M. Baumann *Curr. Opin. Green Sust. Chem.* **2024**, 100907: [Recent Advances Exploiting Reactive Intermediates Generated via Continuous Flow Chemistry - ScienceDirect](https://doi.org/10.1016/j.cogsc.2024.100907)

### Research talks

Well done to Dr Kirill Nikitin, who presented a flash talk "SINFERT phosphorus recovery and releasing life's bottleneck" at "Healthy and Sustainable Communities for All" on March 13th in the UCD Village.

The latest research of the Baumann lab was shared with academic and industrial audiences at various conferences across Europe including Malaga (see photo), Nottingham, Rome, Cork and Rotterdam.



### School events

The Chemistry tag rugby team are looking for recruits again! There is a short, 6-week league starting on the 10th of April in Alex College. It's a brilliant chance to give it a try before the longer summer leagues start back in UCD. It's a mixed social sport welcoming all levels, just email [david.mc-laughlin@ucdconnect.ie](mailto:david.mc-laughlin@ucdconnect.ie) or team captain [shane.oneill4@ucdconnect.ie](mailto:shane.oneill4@ucdconnect.ie) if you're interested.



Save the date!



ICI YCN Presents

## Young Chemists for Change (YCFC) Advancing Equity in Chemistry

May 30th & 31st 2024  
University College Dublin (UCD)



Join us and present your chemical research!

We're looking for early career researchers to present their research in chemical sciences as a short talk or poster. Participants are encouraged to think of ways their research may impact an EDI subject, if possible. If your research already has an impact on EDI, please make that the focus, rather than getting deep in heavy data. At this conference, the research is chemical and the conversations are EDI!

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ICI Young Chemists' Network (ICI YCN)

**FREE REGISTRATION  
& ABSTRACT SUBMISSION**

Abstract deadline April 20th  
Registration deadline May 1st

