

THE G(e)OSSIP

The official newsletter of the Geology Department

28 April 2022 | Issue 13

Welcome to Trinity term and the April edition of the newsletter. We hope you had an enjoyable Easter Bank Holiday and made the most of the Spring weather.

Read on to catch up on what the department has been up to in the last few weeks, including fieldwork, podcasts and publications.

In other news, the department popcorn machine has been deep cleaned, so make sure to pop over to the common room this Friday for its grand return, along with beers. Also keep an eye on your emails for some themed Friday socials which are in the works.

Our newsletters are archived and uploaded on the Geology website. You can access them [here](#).

The G(e)ossip will be released on the last Thursday of each month. If you have feedback or anything to be added to upcoming newsletter issues, please send us an email at geossip.tcd@gmail.com.

-The G(e)ossip Team

DEPARTMENT NEWS

NEW FELLOW

Congratulations to Dr. Juan Diego Rodríguez-Blanco who was elected Fellow of the College on Trinity Monday, 25 April 2022.



AWARDS

Back in February our PhD students took home the prizes for best posters at the Irish Geological Research Meeting (IGRM). Congratulations!

1st [Adrienn Maria Szucs](#); 2nd [Vincent Monchal](#)* (*Joint 2nd with Roberto Pantoja Porro); 3rd [Li Zhang](#)

ERC FUNDING

Emma Tomlinson has been awarded a Horizon Europe ERC Consolidator Grant (worth up to €2 million) for the project LITH03: Quantifying the formation and evolution of the Archaean lithospheric mantle which will seek to answer the long-standing question: 'How did the cratonic lithosphere form?'. How the cratonic lithosphere formed and its subsequent evolution have profound implications for our understanding of the origin of the continents, the onset of modern plate tectonics and the thermal evolution of the Earth's mantle. The project will use evidence from rare samples (exsolved peridotites and diamond inclusions) that preserve information on their formation conditions coupled with insights from partial melting experiments and thermodynamic modelling; and will unravel the processes that have modified the mineralogy and thermal structure of the lithosphere since its formation. The project will start in September and will support 3 PDRAs and 2 PhD and 1 MSc student in the Geology department.



MADE AT UNI CAMPAIGN:

Congratulations to Niamh Faulkner & Erica Krueger who's outreach work on the PoRoClim expedition has been selected for the MADE at UNI CLIMATE ACTION campaign which launched on Thursday 28th April. Their work has been championed by the campaign for Inspiring the next generation of Climate Champions.

PUBLICATIONS

Catherine Coxon recently co-authored two papers:

- "Patterns and drivers of groundwater and stream nitrate concentrations in intensively managed agricultural catchments". The first author on this paper is Eoin McAleer, a former TCD Geology PhD student now working as a Catchment Scientist with the Local Authorities Water Programme. You can read the full paper [here](#).
- "Flow cytometry and faecal indicator bacteria analyses for fingerprinting faecal microbial pollution in karst aquifer systems". The first author on this paper is Luka Vucinic, a former TCD Environmental Science MSc student who recently completed a PhD on the impact of on-site domestic wastewater effluent on karst springs, supervised by Laurence Gill and co-supervised by Catherine. You can read the full paper [here](#).

Micha Ruhl recently co-authored a paper:

- "New age constraints on the Lower Jurassic Pliensbachian–Toarcian Boundary at Chacay Melehue (Neuquén Basin, Argentina)". You can read the full paper [here](#).

NEW DISPLAY BOARD IN DEPARTMENT

To better display the diverse range of postgraduate and postdoctoral researchers and projects within our department we will be creating a new feature board containing a photograph and short bio for each researcher.

Please fill in the following [template](#) and send to Lydia (whittakl@tcd.ie) by Friday 6th May.

GREECE FIELD TRIP

The JS Geoscience class have just returned from their April field trip to Greece where they explored the geology of the Aegean with David Chew, Emma Tomlinson, Mike Stock, Chris Nicholas, Foteini Drakou and Lucy Blennerhassett. During this time, they visited the Gulf of Corinth to investigate sedimentary basins and neotectonics, before traveling to the island of Naxos where they mapped a (windy) metamorphic core complex. The trip ended with the 36 students exploring the wonderful volcanic rocks of Santorini – thanks to all involved for a rewarding and fun field trip. It was great to be back in Greece after two long years! Yasas!



Exploring Nea Kameni island within the Santorini Caldera (above).



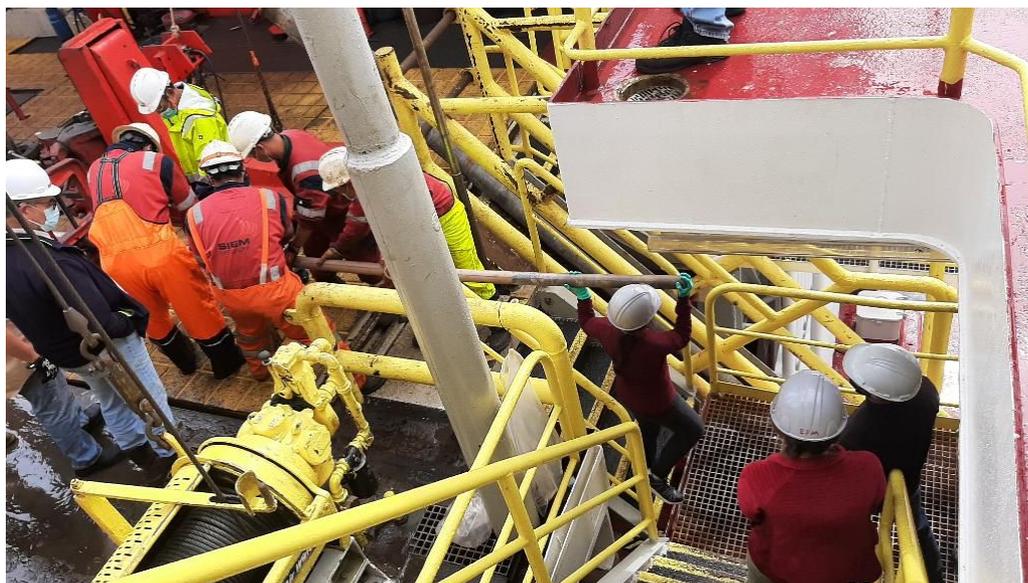
Mapping the metamorphic core complex of Naxos (above).

Learning about fan deltas at Kerinitis Gorge, Corinth (right)



FIELD TRIPS AT SEA - IODP CRUISE

Dr. Elliot Carter has been busy on board [JOIDES Resolution](#) on IODP Expedition 390X "South Atlantic Transect". The team is drilling sediment and basement cores off the western flank of the Mid-Atlantic Ridge. Last week they got their first core on deck (right). The night shift team were recently visited by a swarm of [squid](#)! You can read about the expedition in the in the first report from onboard [here](#).



CONFERENCES



Registration for the Irish Geosciences Early Career Symposium (iGEO2022) is now open! iGEO2022 will be taking place at University College Cork on the 9th and 10th of June 2022. This 2-day event will be held for the first time in Cork City, becoming the first Early Career-focused symposium of the year to be held in person. GEO2022 will enable early-career researchers (ECRs) to exchange knowledge on common methodologies and about their research with fellow ECGs, industry members and policy makers. We offer a wide range of key-note talks and workshops especially designed for ECGs. More information is available on their [website](#) and [Twitter](#) account. Click [here](#) to register.

The 32nd Irish Environmental Researchers Colloquium (Environ 2022) will be hosted from 20th to 22nd June 2022. The call for abstracts is now open until 5pm on 15 April 2022. You can find more information, submit an abstract or register on their website [here](#).

Environ 2022

The 'Geochemistry Group' is pleased to announce that the next Geochemistry Group Research in Progress (GGRiP) Meeting will take place at Cardiff University on the 5th and 6th of May 2022. Registration and abstract submission are now open. Check their [website](#) for upcoming information.

POSTGRAD SUPPORT

A colorful poster for 'GRAD CHATS'. At the top, it says 'POSTGRAD SUPPORT' and 'GRAD CHATS' in large blue letters. Below that, it says 'FOR ALL POSTGRADUATE STUDENTS'. The main text reads: 'To equip students with the skills to manage stress, work-life balance, increase self-care practices, communication and assertiveness skills, and look at how best to negotiate the supervisory relationship'. It also mentions the schedule: 'Mondays from 2pm - 3.10pm in-person at the Student Counselling Service offices (3rd floor, 7-9 Leinster Street South, Dublin 2)'. The speakers are 'With: Tom Adams (SCS) and Martin McAndrew (Postgraduate Advisory Service)'. There is a QR code and the text 'Scan me to sign up'.

Learn more on the PG Grad Chats [webpage](#) and pre-register for sessions [here](#).

PODCAST

A special edition of the iCRAGorama podcast, iCRAGorama ALL STARS is out [now](#). Ben & Niamh revisit previous guests to see what they've been up to & they answer questions submitted by undergraduate students.



MENTAL HEALTH MATTERS

TCD's Student Counselling Services is open and available to all registered students.

Check out their website [here](#) to read about the services they provide, email them at student-counselling@tcd.ie to request an appointment, and follow them on Instagram at [@tcd_headspace](#) for mindfulness and mental health awareness tips. They now offer [PhD research support groups](#) to keep you on track!



DATE FOR THE DIARY:
The Joly Society is hosting a

seminar with Professor Appy Sluijs (Utrecht University) on Friday 20th May.