The Trinity College Dublin Botany Department Newsletter

Accomplishments

Congratulations to Dr. Richa Marawha for achieving her PhD at UCC!

With a thesis in *National farm scale estimates of grass yield from satellite remote sensing,* supervised by **Dr Fiona Cawkwell** and **Dr Stuart Green**.



Awards

Congratulations to **Andrew Neill** for winning an **EPA-Fulbright Student Award** to spend **7 months at Stanford University**, **California**, starting in September 2022. Andrew will be working in **Prof. Gretchen Daily**'s lab group to develop **ecosystem service models for Irish case-studies**. Press release *here*.

FULBRIGHT Ireland-USA

PostGraduate Symposium 2022 - 11th Edition

We did it again! 🗱

Thanks everyone for coming and joining another memorable edition of the PostGraduate Symposium. There were a lot of fruitful discussions and amazing presentations. **If you have missed it** or you would like to watch again the high-lights, check out our Twitter account @<u>TcdZobo</u> - hashtag: #ZoBosymp2022.



Well done everybody, and congratulations to the winners of this 11th edition: Katrin Schertenleib, Niamh Mc Cartan and Elena Zioga.

Where will you be 40 years after your PhD?

Congratulations and thanks to all the postgrads for the fantastic Symposium. While you were enjoying well deserved drinks in the Pav on Friday evening this motley crew met in Kennedys. They were all doing their PhDs in the early 1980s and regularly met in Kennedys on Friday evenings. I hope you took some photos in the Pav so that you can review them in 40 years' time!



Left to right: Steve Waldren (completed his PhD in Cardiff but still frequented Kenndeys in the 1980s), Fraser Mitchell (PhD with Richard Bradshaw), Des Higgins (Botany undergrad and PhD in Zoology with Robert Blacketh, now Professor of Bioinformatics at UCD), Sue Iremonger (PhD with Daniel Kelly, now at the Forest Service), Rosemary Collins (PhD with Mike Jones, recently retired from Aberystwyth University).

Job opportunities

Postdoc: Evolution of temperature-regulated flowering time in grasses.

A two-year postdoctoral position is available in the Preston lab at the University of Vermont (USA) to work on the evolutionary genetics of high and low temperature-regulated flowering in grasses. Review of applications will be begin in early August until the position is filled. An overview of the project below:

The Preston lab is looking for a biologist with a strong interest in the macroevolution of plant phenology from a developmental, genomic, and ecological perspective. Applicants should have a PhD in evodevo, plant adaptation, plant genomics, phylogenetics, bioinformatics, or equivalent, and should have a strong research record in their field. The position will mainly focus on analysis of genomic and transcriptomic datasets, but might also involve experiments to reveal and validate candidate genes implicated in flowering time evolution. The candidate will also have the opportunity to interact with collaborators at the Norwegian University of Life Sciences.

To apply, please send a single PDF containing a current CV, the name and contact details for two referees, and a cover letter explaining your suitability for the position to Dr. Jill Preston (<u>Jill.Preston@uvm.edu</u>)

Publications

Andrew Neill and Jane Stout have co-autored a paper lead by Prof. Holden (UCD), entitled *Biocircularity: a Framework to Define Sustainable, Circular Bioeconomy* - at this link to the Journal *Circular Economy and Sustainability*. This paper aim to discuss what a sustainable circular bioeconomy might look like by creating a concept of "biocircularity".

Job opportunities

On behalf of: Duarte Dionísio Figueiredo - *figueiredolab.com*

Positions: one PhD and one Post-doctoral position.
Where: Max Planck Institute of Molecular Plant Physiology, Germany Starting date: as soon as possible (no deadline for submission)
Fundings: Federal Ministry of Education and Research - bomb.de

Our group is interested in understanding the **mechanisms required for the formation of autonomous endosperms**, which are characteristic of apomictic reproduction. In this project the candidates will investigate such pathways and design strategies for their **engineering in crops**, tighter with our partners at the IPK in Gatersleben - *ipk-gatersleben.de*

We are looking for motivated individuals with education in molecular biology, genetics and bioinformatics is an asset, but not required. A good level of English is required both written and spoken. Please submit your applications to figueiredo@mpimp-golm.mpg.de with the following documents: motivation letter, CV (with publications), names of at least two academic referees.

Publications

Cian White has authored a paper with **Marcus Collier** and **Jane Stout**, entitled Anthropogenic Induced Beta Diversity in Plant–Pollinator Networks: Dissimilarity, Turnover, and Predictive Power, available in_**Frontiers in Ecology and Evolution**

Phytobooks

POLLEN - The Hidden Sexuality of Flowers by Rob Kesseler & Madeline Harley

A collaboration between an artist and a scientist exploring the exquisite world of pollens, which have evolved unique and perfect designs through the . This book consists of 264 pages, illustrated in full colour.

This book will be available for viewing in the Library of the Botany Building (4th-14th July).



Conferences

Well done to **Bea Jackson** and **Thibault Duriex** who presented their project updates at the **11th** *European Palaeobotany and Palynology Conference*, in Stockholm, Sweden, 19-22 June. On the next page, you can enjoy a very well done poster presented by Bea, on the *Reconstruction of atmospheric CO2 concentration during the Devonian using fossil plant traits.*



Bea Jackson, Thomas Algeo, Carla Harper, Patricia Gensel, Zhenzhu Wan, Jennifer McElwain Poster presented at the 11th European Palaeobotany and Palynology Conference



Athena SWAN/EDI Newsletter

2022 Trinity College Dublin Equality, Diversity and Inclusion (EDI) Survey

Thank you to everyone who submitted their responses to the **2022 Trinity College Dublin Equality, Diversity and Inclusion (EDI) Survey**. The results of the survey are integral to our understanding of how staff view EDI within college and therefore its significance cannot be overstated. We expect to have feedback from this by the end of the summer, which will then be used by the EDI committee to shape the School of Natural Sciences Athena SWAN silver award application.

Pride in Research

On the 16th June **#TCDPrideInResearch** hosted their first ever in-person event, where LGBTQ+ staff, students and allies took to the stage to share their research. The event was a great success, and you can find highlights from the day over on twitter @PRIDEinResearch.

Resources

Understanding Pronouns: The LGBT Life Center provides a useful guide to understanding people's pronouns and why they are important. We encourage everyone to read the below webpage, whether you are familiar with pronouns already or are unsure how to use them correctly. Furthermore, adding your pronouns to your email signature creates space for others to share theirs too. Including a *hyperlink* to the guide can also be valuable, encouraging learning and inclusivity. If you would like more information, please view our *website*.

You can contact the Athena SWAN/EDI committee at fraser.mitchell@tcd.ie



Phytoart - Margaret Mee (1909-1988)

Margaret Mee was an **English pioneering botanical artist** who produced hundreds of botanical paintings, and specialised in the **flora of the Amazon forest**. In **1952**, at the age of 42, she left England to go and live in Brazil, along the River Amazon and in the Amazon rainforest. She has been painting and study this flora for over 30 years, and she also found and recorded new plants which are now named after her. Many of her books are out of print, but this one is currently under review for another edition so you may be interested in keeping an eye on it (*Flowers of the Amazon Forest: The Botanical Art of Margaret Mee*).

There is a movie dedicated to her: *Margaret Mee and the Moonflower,* and if you click on the picture below trailer should begin). It is available on streaming.



Phytoart - Jessica R Shepherd

Self-identifying as the 'Rebel Flower Painter', Jessica R Shepherd is one of the world's leading botanical painters, creating works that are known for their capacity to bring audiences closer to the mystical, the irrational and the sublime.

She established **Inky Leaves Publishing** in 2017, and placed the botanical kingdom in the spotlight with her solo show (**Leafescape**) of over **30 new watercolour paintings** at **Abbott and Holder, in London**. For this exhibition, Jess explored her vision of a botanical dystopia, challenging our own sense of scale, its value and how we measure it. A selection of fine art prints, books and cards from the exhibition are available at *Inky Leaves Publishing*. I am sure you will find something beautiful for yourself or your loved ones too. For myself I have ordered an A1 print of Blue Flame, I can't wait to see it on my walls!

If you click on below, you can experience a virtual exhibition of her Leafescape.

JUNE 2022

PHYTOBYTES

PHYTOBYTES needs your input!

Whether you are student or staff,

please feel free to send any kind of news to Diego D. Bianchi - dbianchi@tcd.ie