



ARC CENTRE OF EXCELLENCE IN  
FUTURE LOW-ENERGY  
ELECTRONICS TECHNOLOGIES

### FLEET News: January 2024

Welcome back after the New Year break! As we reflect on our achievements in 2023 for our annual report, I'm proud to highlight in this newsletter the success of the 16 PhD candidates who submitted their theses this year. We also continue our 'Where Are They Now' series, catching up with FLEET alumni; this edition features Oliver Paull, an original PhD student from when FLEET started in 2017.



For those celebrating the upcoming Lunar New Year on February 10, may the Year of the Dragon bring you joy, success, and prosperity! Wishing you and your loved ones a Lunar New Year filled with happiness, health, and all the success you deserve!

Cheerios,  
Tich-Lam.

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### In this edition of FLEET News:

- **Francesca Iacopi IEEE Fellow**
- **FLEET alum profile: Oliver Paull**
- **Congratulations Torben Daeneke**
- **Ferroelectricity seminar next month**
- **NSW technology funding available**
- **Congratulations to the 2023 PhD cohort**
- **Pen-pal outreach opportunity**
- **Quantum tech defence funding open**
- **More talks online**



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## Francesca Iacopi IEEE Fellow

Congratulations to FLEET AI Francesca Iacopi (University of Technology Sydney), named an IEEE Fellow for contributions to integration strategies of nanomaterials in silicon technologies.



## Where are they now? FLEET alum Oliver Paull

Oliver Paull was one of the original cohort of FLEET PhD students when the Centre was launched in 2017. We interviewed Oliver about his career path after leaving FLEET (Oliver completed his PhD in July 2022), and how he has used his technical and collaboration training at FLEET in his new position as a postdoc at Unité Mixte de Physique, France.

[Read more online.](#)



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## Congratulations Torben

Congratulations also to FLEET CI Torben Daeneke who has been made a full Professor at RMIT University. [Read more about Torben's work at FLEET.](#)



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## Ferroelectricity seminar

The first FLEET seminar of 2024 will examine ferroelectricity in 2D heterobilayers, with Prof. Shu Ping Lau, Department of Applied Physics, Hong Kong Polytechnic University. Join us 11AM 22 Feb on zoom. [Details online.](#)

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## NSW technology funding

Applications are open for the [NSW \(Australia\) government's MVP Ventures Program](#), offering grants of \$25–50,000 to start-ups and SMEs to help commercialise highly innovative and new products or processes (TRL 3–9) to help them move along the technology readiness scale and attract investment. Applications close 30 April, with the following round opening 1 July.

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## PhDs submitted in 2023

Congratulations to the 16 PhD candidates who submitted their thesis in 2023:

From Swinburne: Rishabh Mishra (who has since taken up a postdoc position at UNSW), Jack Muir (postdoc position at CSIRO) and Mitchell Conway. From RMIT: Patjaree Aukarasereenont (postdoc position at CSIRO), Nam Van Ho, Sajinda Afrin, Yik-Kheng Lee and Yogesh Kumar. From Monash: Phat Nguyen (researcher at Next Ore), Ben Lowe (postdoc position in the Czech Republic), Qile Li, Yi-Hsun Chen and Matt Gebert. From UOW: Abdulhakim Bake (postdoc position at Griffith). From UNSW: Maedehsadat Mousavi and Zeb Krix.



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## Penpal outreach opportunity

STEMpals links scientists and school students via a 'pen pal' program, connecting 10–12 year old students to STEM professionals so the students can be who they can see. Share your passion and inspire curiosity as a STEMpal, contribute to student success through just one impactful letter exchange each school term. Your insights help educators nurture young minds and can spark lifelong curiosity. **Sign up** before 9 February for 2024.



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## New defence funding for quantum technologies

The first round of Emerging Disruptive Technologies (EDT) funding has opened, to fund research aligned with defence priorities at approximately \$3M per project of 3-5 year duration. Applications (4pp) are due 9 February 2024, with shortlisted applications participating in co-design workshops in February/March.

**Read more about the EDT program and identified quantum technology opportunities,** including quantum sensing, quantum computing, navigation, ML and software.

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## Jobs board

The FLEET “jobs board” at [FLEET.org.au/jobs-board](https://fleet.org.au/jobs-board) is a useful resource for people looking for future positions. If you know of any positions of interest, let us know and we'll add them. Group leaders, we're happy to list your new positions here too.

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## Catch up on past talks

All FLEET seminars and talks are available to catch up on YouTube:

- Wendy Rogers (Macquarie) **Understanding researcher values to build better scientific outcomes**
- Miguel Ugeda (Donostia) **Collective electronic states in 2D heavy fermion system**
- Peter Abbamonte (Illinois) **Observing Pines' Demon with momentum-resolved EELS**
- Hui Deng (Michigan) **Different phases of polariton lasers**
- Jukka Vayrynen (Purdue) **Extrinsic/intrinsic superconducting diode effects** (intranet)

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## Grants and opportunities

**Main Sequence Ventures** (CSIRO's investment arm) deep-tech newsletter features over 40 companies with 300+ jobs on offer. **Sign up for the newsletter** to stay informed.

For ongoing outreach/development opportunities see **In2science** mentoring, and **CSIRO STEM Professionals in Schools**.

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## Participating organisations

FLEET is The Australian Research Council Centre of Excellence in Future Low-Energy Electronics Technologies. Read more about our **participating nodes** and **partners** online.



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