



Newsletter Issue #5

As EMPHASIS enters the final stretch, this issue spotlights how our research translates into real-world supercapacitor solutions.

Start with two new video interviews, on sustainable, high-performance electrolytes and on turning research into impact, then meet a rising team member in our “Meet the Researchers” series.

We also recap key events across Europe and North America, share a new publication, and highlight a call for papers.

Here’s how science, industry, and sustainability are converging as we approach the finish line.

Video interview series

Sustainable + high-performance energy storage

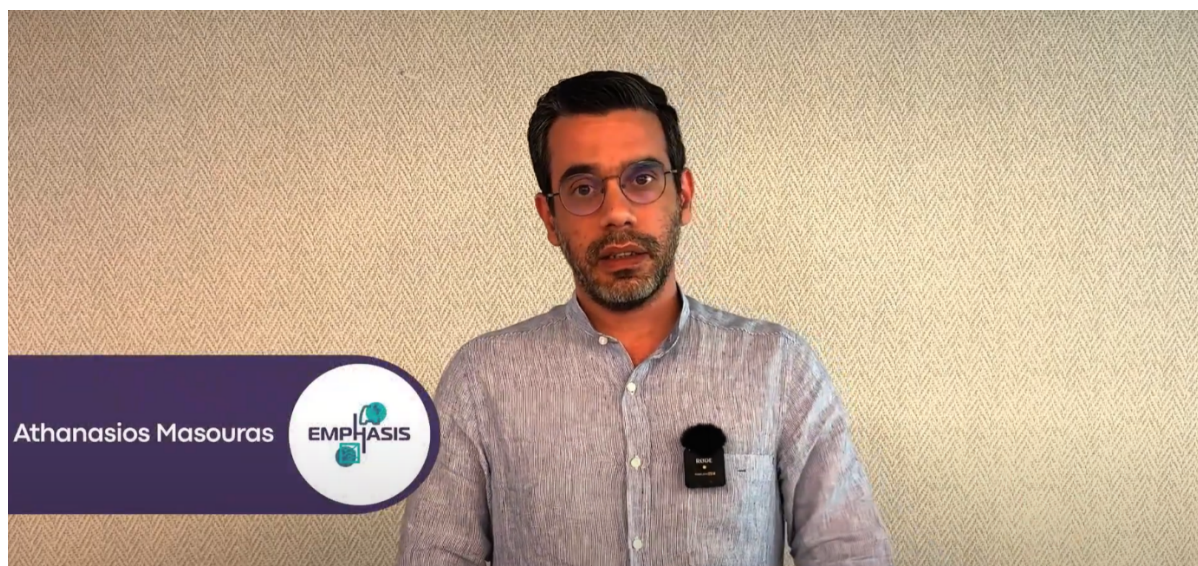
Guinevere Giffin (UNIWU, WP3 lead) explains how her team—together with Solvionic—is developing eco-friendly ionic-liquid electrolytes.



[Watch the video here.](#)

From research to real-world solutions

Nasos Masouras (Pleione Energy, EMPHASIS coordinator) reflects on takeaways from the Athens cluster event with INERRANT Batteries—why comparing experiences matters, how hybrids benefit, and what happens when researchers think like industry.



[Watch the video here.](#)

Meet the team

Interview series with young researchers

Our interview series continues, giving young researchers the opportunity to tell us about their tasks in the project and share their experiences.



Get to know **Merlin Bohn**—his journey into supercaps, what motivates him outside the lab, and what he's most excited to tackle next.

[Read the full Interview here.](#)

Events

Bridging academia and industry

Innovation Days for Supercapacitors gathered EMPHASIS, HEDAsupercap, MUSIC and GREENCAP for two days of shared challenges and collaboration; full video available.



[Find more here.](#)

INRiM @ Smart Energy Workshop

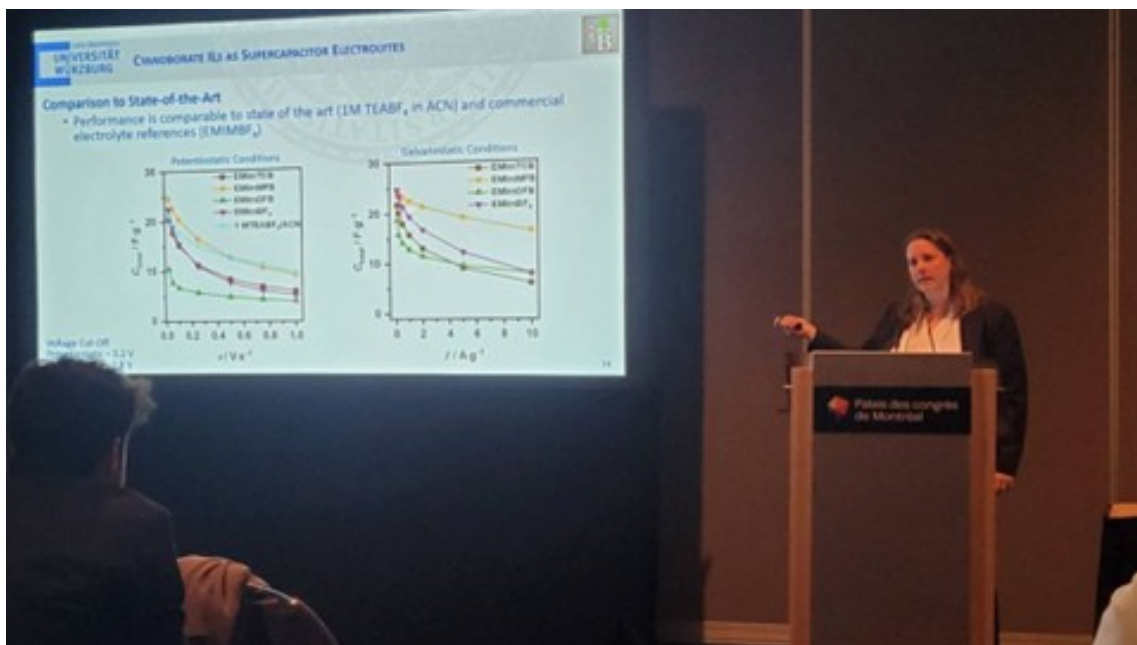
Mauro Zucca presented EMPHASIS work on characterizing and simulating supercapacitor behaviour to enhance efficiency and lifetime.



[Find more information here.](#)

UNIWI @ ECS Meeting (Montréal)

Talk on cyanoborate-based ionic-liquid electrolytes targeting higher energy density and stability in next-gen supercapacitors.



[You will find more about the event here.](#)

4th Progress Meeting and Cluster Event (Athens)

Partners aligned final-phase work on graphene production, novel carbons, eco-electrolytes, smart-textile demonstrators, and sustainability. Joint session with INERRANT explored synergies and future actions.



[Read more here.](#)

PyroMaN Workshop (Bulk Carbon Materials)

Wood K plus detailed thermal post-treatment of cellulose-based ACFs for supercapacitor electrodes — a renewable route to high-performance materials.

[Find more about the event.](#)

German–French Summer School on High-Power Devices (Jena)

Wood K plus highlighted bio-based activated-carbon fibres progress (WP2) toward efficient, eco-friendly supercapacitor electrodes.



[Find more about Summer School here.](#)

ACS Fall 2025 (Washington, D.C.)

UNI WU presented on stability of tricyanomono fluoroborate-based ionic-liquid electrolytes at porous carbon electrodes.

Merlin Bohn presents tricyanomono fluoroborate-based IL electrolytes at ACS Fall 2025



ACS
Fall 2025 meeting
Washington, D.C



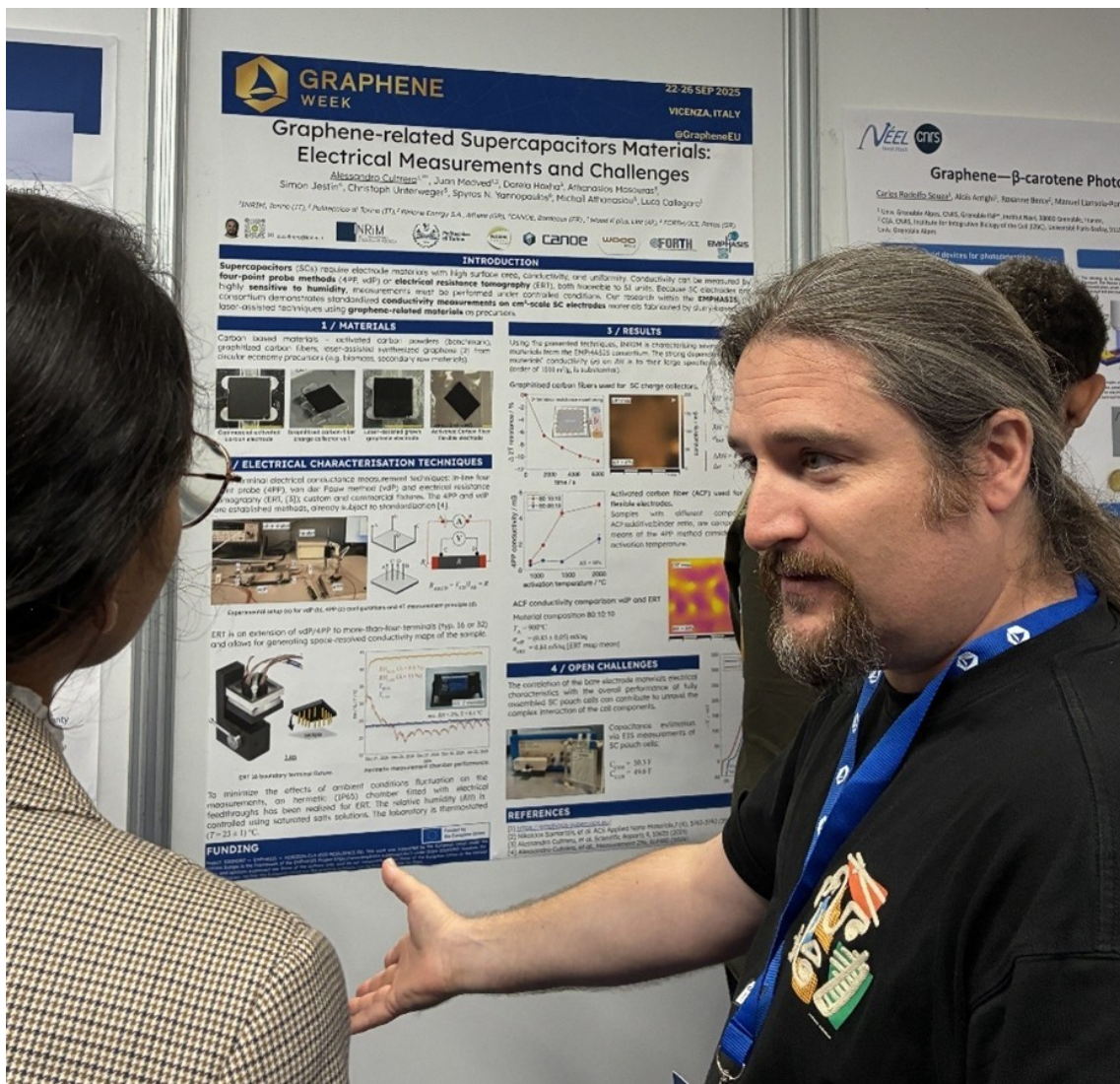
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[Read more here.](#)

Graphene Week 2025 (Vicenza)

Strong EMPHASIS presence: posters on electrode electrical characterisation and discussions at the Graphene Flagship annual meeting; wearable-graphene angles featured.



[Read the article here.](#)

Social perspectives on bio-based supercapacitors at REV2025

At REV2025 in Graz, Hanna Sofia Leiter shared Social Life Cycle Assessment (S-LCA) results for bio-based supercapacitors, highlighting their role in developing socially viable value chains. Her talk connected materials research with societal outcomes to support sustainable, circular transport solutions.



[Read more about REV2025 here.](#)

Publications

Electrode structure drives ion transport

Energies (MDPI) paper combining calibrated impedance spectroscopy with FEM to compare activated-carbon vs. graphene electrodes in ionic-liquid systems; insights to optimize SC materials.

[Read the full publication.](#)

Call for papers — “Supercapacitors and Their Applications: Advances and Challenges”

Special issue (MDPI Energies) guest-edited by INRiM's Mauro Zucca and Gert Rietveld (UTwente). Open 24 months; topics span testing, modelling, hybrid systems, e-mobility and more.

[Read more about it here.](#)



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