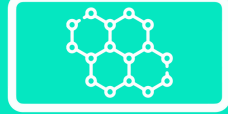


NEWSLETTER

November 2024 | No #2

ARMS



It's been a year since the project kicked off last November at Tampere University! And what a year: the work on the supercapacitor electrode materials and the electrolyte, as well as the development of a Safe and Sustainable-by-Design (SSbD) framework addressing energy storage devices, is running in full swing; consortium partners have represented our project in various events; project has co-hosted two workshops together with Graphene Flagship sibling project GRAPHERGIA, and our first publication has been submitted.

Join us on our journey into the world of cutting-edge technology and sustainable innovation. Explore events our project partners have experienced in the second half of the first year. Join us on a quest for knowledge, collaboration, and ingenuity as we pave the way for a greener and more sustainable future. Welcome to a place where innovation meets sustainability - welcome to the ARMS project newsletter!

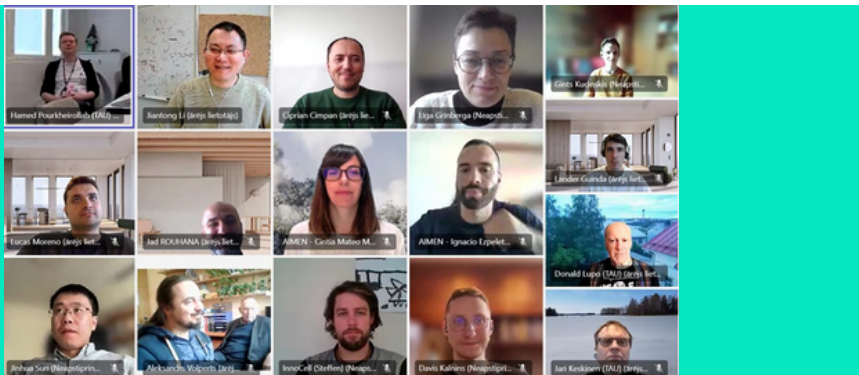


After the beautiful summer vacation month, project ARMS was back on track. It was time to get back to work. From October 14 to October 18, project ARMS successfully participated in Graphene Week 2024 in Prague, Czech Republic, where we showcased our cutting-edge research and innovations alongside other Graphene Flagship sibling projects. During the event, ARMS co-hosted a workshop with GRAPHERGIA project, which featured presentations by our technical project manager, Dr. Hamed Pourkheirollah from Tampere University and Associate Professor Jinhua Sun from Chalmers University of Technology, focusing on graphene functionalization and its applications in energy storage. Additionally, ARMS was prominently featured at the Graphene Flagship Hall, engaging with attendees through various presentations and discussions throughout the event. The participation highlighted the project's contributions to the advancements in graphene and 2D materials, attracting a diverse audience of international experts and students. [Read more](#)



Last but not least, it has become a cherished tradition in every ARMS newsletter to announce that one of our project representatives earned a Ph.D. We are particularly proud to congratulate Zahra Ahaliabadeh from Beneq, who has recently defended her Ph.D thesis titled "Stabilized Nickel-Rich Layered Oxide Electrodes for High-Performance Lithium-Ion Batteries" at the Department of Chemistry and Materials Science at Aalto University in Finland. Congratulations! [Read more](#)

WHAT HAVE WE BEEN UP TO?



On April 19th, the ARMS consortium partners gathered online for a general meeting, featuring updates from all 11 partners on the project's exciting progress. Leaders from various work packages shared significant advancements, including synthesizing graphene-based electrode materials and developing cutting-edge electrodes for micro-flexible supercapacitors. As discussions unfolded, insights into future activities and eco-friendly supercapacitor innovations emerged, setting a collaborative tone for the project. [Read more](#)



On June 30, the ARMS project co-hosted a successful workshop at the IEEE FLEPS 2024 Conference in Tampere, Finland, focusing on energy-autonomous wearable electronics. This event brought together experts from four EU-funded projects—SUPERIOT, SOLiD, GRAPHERGIA, and ARMS—to discuss innovative energy harvesting systems and cutting-edge energy storage solutions. For more details, check out the [full story](#).



Project ARMS Consortium Meeting took place in Riga, Latvia, on November 5-6. The meeting was hosted by the Institute of Solid State Physics, University of Latvia, and it gathered all the consortium partners for an in-person event for the first time since the project kick-off in November 2023 at Tampere University, Finland. Over the course of this meeting, participants engaged in in-depth discussions about the project's progress, shared insights, and explored new avenues for cooperation. The focus was on translating theoretical concepts into practical applications, fostering a collaborative environment essential for the project's success. [Read more](#)

UPCOMING EVENTS



Dr. Hamed the Pourkheirollah, our technical manager from Tampere University, will represent the ARMS project at the "International Research Funding Days for Researchers" event in Tampere, Finland, December 3 - 5, 2024.

ARMS will appear in the poster session "Horizon Europe forum - Insights, knowledge sharing and networking." The event will be focused on exploring funding opportunities from various international sources. Attendees can expect to engage in knowledge sharing and networking, as well as to gain insights into available financial support for their projects.

"Faces Behind Science" campaign launching November 2024!

Curious about the brilliant minds driving Project ARMS? Don't miss our exciting "Faces Behind Science" campaign starting this November! Get ready for an exclusive interview with Project Coordinator Matti Mäntysalo, who shares insights into our talented consortium: "We have a dedicated and innovative team, genuinely committed to enhancing supercapacitor performance." Stay tuned for more inspiring stories and learn how our leaders are shaping the future of science!



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This project is funded by the European Commission's Horizon Europe programme and is part of the Graphene Flagship initiative, which advances technologies that rely on graphene and other 2D materials.