

Contact Information:

WG5 - Communication

info@mecanano.com

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Reminders

Upcoming MecaNano and related events

- EPFL is providing a workshop on thin film and small scale mechanics from **Nov 25th to 28th, 2025** at Empa in Thun, Switzerland. More details [here](#) and registration [here](#)!
- MecaNano WG1&2 workshop on *in situ* Testing in Toulouse, France from **26. to 28. Jan., 2025** Website open soon!
- DPG Spring Meeting in Dresden, Germany from **8. to 13. Marc, 2026**. Abstract submission from October 1st. Special session "Advanced Nanomechanics" in the "Metal and Material Physics Division". More detail [here](#)!
- NanoBrücken in Leoben from **8. to 10. April, 2026**. More details [here](#)!
- 4th General Meeting from **27. to 29. April 2026** in Rome, Italy. Abstract submission open 9. Dec. 2025. More info [here](#)!
- Spring E-MRS 2026 from **25. to 29. May** in Strasbourg, France – **abstract deadline 21. Jan. 2026**. More [here](#)!
- 3rd Mecanano's Summer School in Cargese, France, from **6. to 11. Sept. 2026**.
- MSE 2026 in Darmstadt from **29. Sept. to 1. Oct.**
- ECI 2026 (Nanomechanical Testing in Materials Research and Development IX) from **4. to 9. October** in Rhodes, Greece. More details [here](#)!

Job offers: Check out jobs on the [MecaNano website](#), many are still open ! (You first need to [register](#)).

MecaNano Summer School 2025 : A Week of Advanced Nanomechanics in Kassel

The University of Kassel welcomed approximately 60 early-career researchers from around the world, alongside 10 renowned experts, for comprehensive tutorials and practical training in materials nanomechanics. The curriculum covered wide topics including nanoindentation, small-scale plasticity, molecular dynamics simulations, thin-film mechanics, and the application of machine learning to nanomechanics.

The school was organized by Prof. Benoit Merle, Dr. Megan Cordill, Prof. Christoph Kirchlechner, and Prof. Yolita Eggeler. The lectures were delivered by leading specialists from Europe, the US, and Israel. All presentations can be found in the MecaNano Repository for registered members!

In addition to the scientific program, the summer school provided many opportunities for networking. Social activities and informal gatherings created a lively atmosphere that encouraged collaborations across disciplines and career stages. Participants praised both Kassel's attractions and the university campus, while consistently commending the event's excellent organization. The program successfully maintained strong gender and geographic diversity, embodying COST actions' dedication to inclusion. The organizers would like to thank all instructors and participants who made the MecaNano Summer School 2025 a remarkable success!

If you participated in the Summer School and have not yet completed our very short survey, please use the following link to provide the organizers with your feedback [here](#).



MecaNano Summer School 2025

WG4 Online Series a Success!

Over the course of spring and early summer, course participants focused on how research data management systems work “under the hood” (well, bonnet). Starting with a general overview of databases and data storage systems, participants then learned the basics of setting up and working with structured databases via SQL. Then participants used the Streamlit framework to generate their own web-

page for a (prototype) RDM system and then finally put everything together in building a simple RDM system from scratch. They also looked at how to extract metadata from data obtained from scientific instruments and how and where to publish research data. A new online series is currently being planned. Stay tuned for upcoming MecaNano announcements!

2nd WG4 MecaNano Meeting in Budapest – What a ride!

The 2nd MecaNano Meeting was successfully held in Budapest on September 4–5, 2025, bringing together 17 participants for focused discussions on advanced micro- and nano-mechanics. The event featured 11 contributed talks showcasing well-developed case studies and applications, along with 3 tutorials that facilitated knowledge exchange among both new and experienced researchers. The meeting generated high-quality contributions and established plans for future activities, including pitching events and round tables that will be open to working groups WG1, WG2, and WG3, with continued emphasis on collaboration with WG3 to integrate machine learning expertise into the field.

The next events are already on the horizon: Pitching events and round tables will keep the momentum alive and bring even more voices into the discussion. The events are scheduled to take place in late November or early December 2025 online for about 4.5 hrs (one half day) with the aim for experts to guide non-experts in Machine Learning across MecaNano’s WG1-3. Contributors will be giving the opportunity to “pitch” their problem or need for ma-

chine learning and connect to experts to hopefully make a plan towards a solution.



WG4 MecaNano Meeting in Budapest

MecaNano STSM Highlight

Claus Trost from the Erich Schmid Institute completed a successful two-week Short-Term Scientific Mission (STSM) at Università degli Studi Roma Tre, collaborating with a team of researchers on nanoindentation and machine learning applications for self-healing thin films and composite materials. The collaboration significantly advanced his research by combining nanoindentation specialists with machine learning expertise, enabling the creation of new datasets and providing hands-on experience with 4D high-throughput nanoindentation techniques. Claus gained valuable insights into Continuous Stiffness Measurements and learned from hardware specialists, which enhanced his data-driven approach to nanoindentation research. He strongly recommends others apply for STSMs, noting the accessibility of international collaboration opportunities.

The next round of STSM applications will open soon and must be completed anytime between December

2025 and August 2026.



Claus Trost and the hosting team at Roma Tre

The MecaNano logins : Instructions for use...

If you are new to MecaNano and struggling with when to use which login to which online platform, you are not the only one. Here is your login rundown:

e-COST: Every approved member joined MecaNano through the e-COST. This platform also organizes our refunding and grant reimbursements as well as the inviting to events (the sign-in sheets!). In order to get on the mailing list to receive information from the dedicated email address (info@mecanano.com), you must be first approved on this platform. **It is therefore essential that you register for e-COST, by following the procedure below.**

1. Go to <https://e-services.cost.eu/action/CA21121/working-groups/apply>
2. If you have not already taken part in any COST Action, then you need to create a login and password for the e-COST platform (see figure). Please provide your details on the next pages - no need to upload a CV.

3. Use your newly created login and password to log in to <https://e-services.cost.eu/action/CA21121/working-groups/apply>

4. Fill in the form as given in the example below. Select as many Working Groups as you wish to make sure that you receive communication on all topics. Feel free to write only a few sentences about your background. This aims at confirming your adequation to the topic of the network.

5. Please kindly allow a few weeks for your application to be manually processed. You should eventually receive a confirmation e-mail.

Registering to the MecaNano network ensures that you receive our newsletters and mailing about future events.

In case you are selected for a scholarship, the e-cost platform will be used to process your claims.

MecaNano website: This is our main form of communicating events and information to the MecaNano network. A login is necessary here to access our repository that includes documents and links to our (private) youtube channel. At the channel we host recorded online events as well school presentations. If you would like the WG5 Communications team to post an event or job that is related to MecaNano, download the templates and fill out with the information to be posted (or sent via email). Only completed templates will be accepted and posted. Please note that sometimes it can take the team a few days to get something online or to answer your emails. Remember, we are volunteers and have regular jobs too.

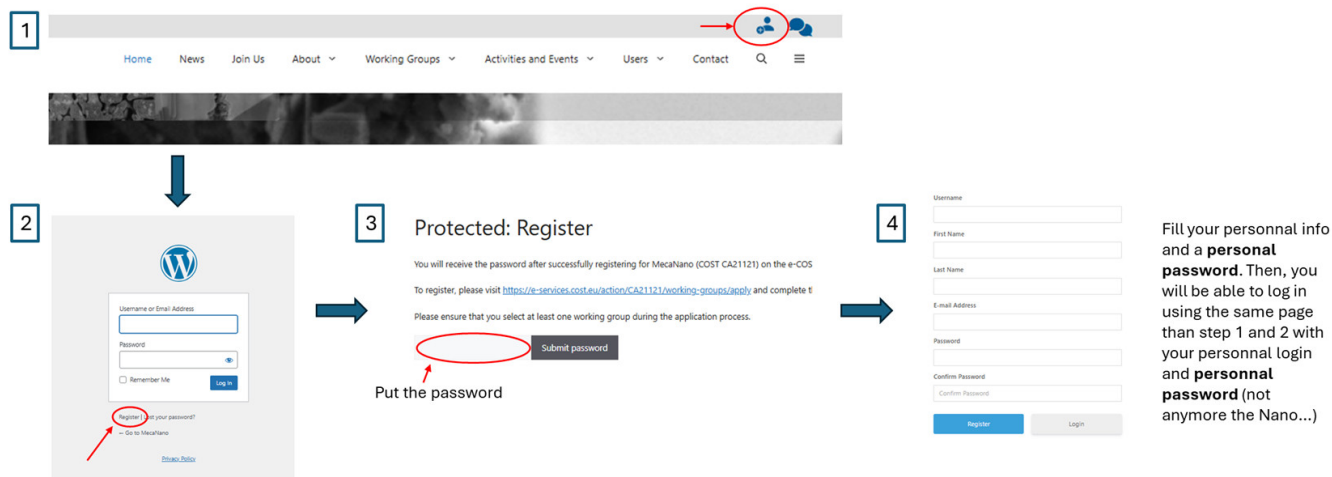
Sciencesconf.org: Sciencesconf.org is a platform often used by conference organizers worldwide (not specific to MecaNano events). This implies another login, in order to access abstract submission, registration, ... Note that a large number of non-MecaNano conferences use this platform, so it may be useful anyway!

Access to the MecaNano Repository

The procedure to register and login on the mecanano.com website was recently updated. Last year, we faced issues of fake profiles and we realized at the same time than only a small part of the network had access to the private repository area containing several documents generated during last events. If you do not have access yet to the repository,

please register and login by following this procedure. The password is **Nano1205!!!**

If you face problems, please contact info@mecanano.com with the exact procedure you followed. Those members who already contacted info@mecanano.com do not need to contact again.



New procedure to register to the Mekanano website