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WG5 - Communication

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MecaNano website

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In This Issue...

- [3rd General meeting](#)
- [MecaNano WG4 Meeting](#)
- [Online symposiums organized by WG2](#)
- [New Online Tutorials](#)
- [STSM grants](#)
- [Conference Grants](#)
- [Upcoming Events - an overview](#)
- [Access to the MecaNano Repository](#)
- [Job offers in details](#)

Reminders

Upcoming MecaNano events

- **NanoBruken 2025** is planned on March 4-6, Fraunhofer IMWS in Halle (Saale) Germany. More info and registration information [here!](#)
- **Mecanano 3rd General Meeting** will take place 19-21 May in Krakow, Poland. **Abstracts deadline 14 Feb.** More info and registration information [here!](#)
- **Materials Structure and Micromechanics of Fracture (MSMF-11)** is taking place in Brno, Czechia (June 23-25, 2025). More info and registration information [here!](#)
- **Euromat 2025** is taking place from September 14-18 in Granada, Spain. Session D3 is MecaNano sponsored, session A2 is of interest to the network. More info and registration information [here!](#)
- **COMPLAS 2025** will take place in Barcelona (Spain) 2-5 September 2025. Nanoscale Origins of Plasticity in Modern Nanostructured Materials is a COST MecaNano Minisymposia and Mechanical Properties and Plasticity of Small-scale Materials is of interest to the network. More info and registration information [here!](#)
- **Training school**

Job offers: Check the job opportunities [here](#) (you first need to register on the [MecaNano website](#)).

GM3 in Krakow! Don't miss out!

If you haven't done so already, we encourage you to submit your contributions and secure your participation in this exciting event! Please visit the [MecaNano General Meeting 2025 website](#) for registration deadlines and additional details.

Invited Speakers:

- Urszula Stachewicz, AGH University of Krakow, Poland
- Marc Legros, CEMES-CNRS, Toulouse, France
- Martina Freund, RWTH Aachen, Germany
- Edoardo Rossi, Università degli Studi Roma Tre, Italy
- Bo-Shiuan Li, Sun Yat-sen University, Taiwan
- Francesco Maresca, University of Groningen, Netherlands

Deadlines:

- Abstracts submission: **14. February 2025**
- Registration: **14. February to 14. March 2025**
- Preliminary program: **11. April 2025**

Join MecaNano in Krakow Beyond the exciting scientific discussions, Krakow offers a rich cultural experience, blending historical charm with modern vibrancy.

MecaNano WG4 Meeting: Machine Learning for Micro- and Nano-Mechanics

We are pleased to announce the upcoming MecaNano second WG4 workshop, focused on the application of machine learning to micro- and nano-mechanics. The workshop will take place on **September 4th and 5th, 2025**, at the **Lágymányos campus of ELTE Eötvös Loránd University, Faculty of Science (Budapest, Hungary)**. This event will feature invited presentations from experts in machine learning applied to materials science, offering insights into the latest advancements and new research directions. The meeting welcomes both experienced researchers and non-experts interested in exploring how machine learning can enhance their research in micro- and nano-mechanics. We encourage participation from all those eager to learn, collaborate, and contribute to the growing intersection of artificial intelligence and materials science.

Successful symposium organized by WG2

On December 10th and February 7th, WG2 organized two online symposium on Experimental and Simulation Challenges in MecaNano. Among the 12 oral presentations showcasing the outstanding variety of research conducted within the MecaNano network, highlights included presentations by Dipl.-Ing. Lea Andrea Lumper-Wimler (Austria) and Dr. Thomas D. Swinburne (France), who focused on key challenges in nanoindentation experiments and machine learning approaches. Thank you to everyone that participated!

New Online Tutorials: Machine Learning for Materials Science

MecaNano is launching a series of online tutorials, covering key machine learning techniques for materials science. The 15-30 minute mini-presentations will be delivered by experts and emerging researchers working directly in the field. Each tutorial will include example code, datasets, and detailed explanations, providing practical guidance on applying machine learning to experimental and simulation data. Topics will cover machine learning fundamentals for materials science, uncertainty quantification and data regularization, clustering and phase identification in nanoindentation, and the shift from specialist to generalist models in materials AI.

The first tutorial will be available in the second half of February and will be published in the MecaNano internal repository. New tutorials will follow, offering structured insights and hands-on examples to help researchers integrate machine learning into their work.

STSM grants

Short-Term Scientific Missions (STSMs) allow scientists to conduct short research visits to a research institution or laboratory in another COST Country. The purpose of these missions is to strengthen existing networks and foster collaboration, to learn a new technique, to have access to equipment, data and/or methods that are not available at their institution, and to contribute to the scientific objectives of MecaNano.

The applicants must be members of the MecaNano action (click [here](#)). The mission must be in line with the topics of the MecaNano action and take place in a country different from the applicant's institution. The maximum grant for STSM is €4000. Note that the requested budget has to be described and realistic to be eligible. Be aware that the action cannot fund salaries.

Payment of the grant will be made after the mission and upon approval of an end-of-mission scientific report, which must be submitted by the applicant within 30 days of the end date of the STSM. The entire procedure for STSM grant application, as well as the eligibility rules and information on evaluation of applications can be found [here](#).

The mission period for this call is from April 15th, 2025 to October 1st, 2025. The STSM can start and end any time during the mission period. Deadline for application is March 10th, 2025. Results will be notified the April 1st, 2025. For STSM grant application, please click [here](#).

Conference grants available for 2025

MecaNano will be launching conference grants for members currently working in an ITC country (Integrated Target Country – see [map](#) on the MecaNano homepage) or is considered to be a YRI (Young Researcher & Innovator – less than 40 years old) to attend conferences that are related to MecaNano Topics. This year, the focus will be on the following 4 conferences:

- ESMC, Lyon, 7-11 July 2025 (4-1 - Experimental Micromechanics and Nanomechanics)
- COMPLAS, Barcelona, 2-5 Sept 2025 (Nanoscale Origins of Plasticity in Modern Nanostructured Materials: a COST MecaNano Minisymposia)
- Euromat, Grenada, 14-18 Sept 2025 (D3 Mechanics Characterization and Modelling)
- IRMES 2025 - Research and Development of Mechanical Elements and Systems, Vrnjačka Banja, Serbia, 19 - 21 June 2025

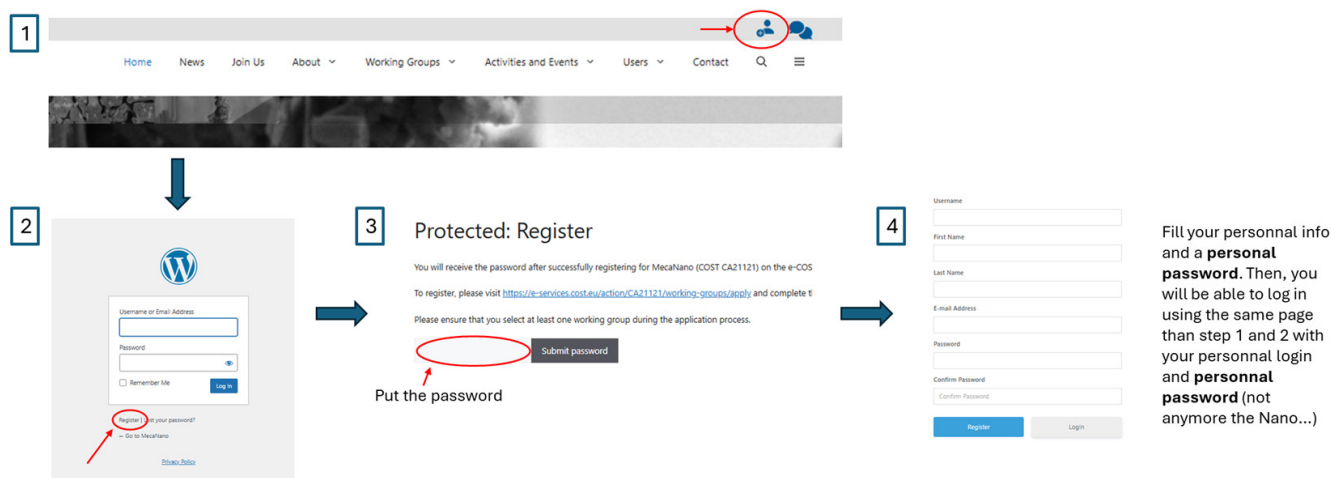
If you identify as ITC or YRI and your abstract is submitted/accepted to any of these conferences (oral for ITC members or poster/oral presentation for YRI) you should apply for a conference grant! Note that abstract approval is mandatory to be refunded. Information on how to apply and the eligibility rules can be found at the [MecaNano webpage](#).

Upcoming events – an overview

- NEW online Seminar hosted by WG3 “Introduction of openBIS at Empa: Challenges and Insights” will be Wednesday, 19. March 2025 09:30-10:20 Zoom (email will be sent with zoom link.)
- The winter school for RDM will be offered again this year in an online format. The plan is to split the content into several small units. More information will be provided as soon as the schedule has been made.
- Don't forget, WG3's online seminar series on the different ELN platforms available. All of the online seminars were recorded and can be found in the MecaNano internal repository. Be sure to check them out!
- MecaNano Summer School on Nanomechanics for Young Researchers and Innovators will be held July 28 - August 1m 2025 in Kassel, Germany. Be on the lookout for updates!

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. You should contact Marie-Stephane Colla to get the [password](#).



New procedure to register to the Mekanano website

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.

Job offers in details

Check the job opportunities [here](#) (you first need to register on the [MecaNano website](#)). Here is a recap of the current offers on the website.

Position	Location	Deadline	Global thematics
Assistant professor	Rome, Italy	15/03/2025	PVD/ALD coating processes
Assistant professor	Rome, Italy	15/03/2025	Computational modeling of material behavior at multiple length scales
Post-Doctoral	Tsukuba, Japan	01/04/2025	Micro-/nano-mechanical characterization of metallic and ceramic materials in extreme conditions
Ph.D.	Rouen, France	–	Measurement of multiaxial residual stresses at the local scale of a polycrystal by FIB-DIC-FEM coupling. Application to additive manufacturing of 316L Additive manufacturing and austenitic-ferritic steel
Ph.D.	UCLouvain, Belgium	–	Modulating Energy Efficiency in Model Thin Film Energy Materials by Active Strain
Ph.D.	UCLouvain, Belgium	–	Nanoscale experimental investigation of grain boundary sliding and amorphization
Ph.D.	Strasbourg, France	June 2025	Finite element simulation and contact mechanics
Ph.D.	Otwock-Świerk, Poland	Early 2025	Implementing strain gradient theory into crystal plasticity finite element modeling - National Centre for Nuclear Research
Ph.D.	Leuven, Belgium	01/09/2025	Mechanical stability of advanced nano-interconnects using pico-indentation
Ph.D.	Leuven, Belgium	01/09/2025	Improving the success rate of Atom Probe Analysis
Ph.D.	Leoben, Austria	02/2025	Mechanisms of segregation-induced strengthening and toughening in ultrafine-grained tungsten alloys
Ph.D.	Paris, France	03/2025	Nanoengineering metallic glasses through chemical and structural heterogeneities
Ph.D.	Leoben, Austria	04/03/2025	High-throughput development of multifunctional thin-film alloys for water electrolysis