



ESONN'2026

European School
On Nanosciences
and Nanotechnologies

AUGUST 23 - SEPTEMBER 5, 2026 / GRENOBLE, FRANCE

THE EUROPEAN
CAPITAL OF
INNOVATION 26

LECTURES

SESSION Quantum Science Technology

- > *A journey through some of the physical properties of 2D materials*
Johann CORAUX, Institut Néel CNRS
- > *Quantum electronic transport*
Clemens WINKELMANN, Grenoble INP-UGA
- > *MOSFET physics and technology*
Irina IONICA, PHELMA, Grenoble INP-UGA
- > *Nano-optics*
Val ZWILLER, KTH Royal Institute of Technology, Stockholm
- > *Technologies of nanofabrication*
Guillermo VILLANUEVA, EPFL, Lausanne
- > *Spin Physics and Spintronic phenomena*
YoshiChika OTANI, Institute for Solid State Physics - University of Tokyo
- > *Near-field microscopies - Advanced*
Hans Joseph HUG, EMPA, Dübendorf & University of Basel

SESSION Nano Bio Sciences

- > *Advanced biophysics to study molecular systems*
Joachim PIGUET, KTH Royal Institute of Technology, Stockholm
- > *Mechanics of molecules and biological structures*
Bart HOOGENBOOM, University College London
- > *Pros and cons of carbon based nanomaterials/(nano)plastics may not be so fantastic!*
Cyrill BUSSY, Centre for Nanotechnology in Medicine, Univ. of Manchester
- > *Engineered Nanoparticles for Modulation and Monitoring of Biological Systems*
Oya TAGIT, FHNW, Institute for Chemistry and Bioanalytics, Muttenz
- > *Nanostructured composite materials: from biological hard tissues to biomimetic and artificial systems*
Elena STURM, Ludwig Maximilian University of Munich
- > *Nano-oncology*
Barbara STELLA, University of Torino
- > *Colloidal quantum dots: synthesis, properties and applications*
Dmitry ALDAKOV, CEA Grenoble, IRIG-SyMMES
- > *Photoresponsive supramolecular and biomimetic nanomaterials*
Bart Jan RAVOO, University of Münster

COMMON

- > *Near-field microscopies - Introduction*
Hans Joseph HUG, EMPA, Dübendorf & University of Basel
- > *Bottom-up nanotechnology by molecular recognition and self-assembly*
Bart Jan RAVOO, University of Münster
- > *Nanotoxicology*
Cyrill BUSSY, Centre for Nanotechnology in Medicine, Univ. of Manchester
- > *Workshop on reproducibility & integrity in scientific publications*
Raphaël LEVY, Université Sorbonne Paris Nord

PRACTICAL TRAINING

The program strongly focuses on hands-on training through practical sessions carried out at the CIME Nanotech cleanroom facilities and in over 20 research laboratories across Grenoble. These experiments are led by researchers who share their current work, offering participants firsthand exposure to the latest advances in international research (the full list of practicals is available at www.esonn.fr).



APPLICATIONS online
Open until May 18, 2026

Picture credits: Manuel Marcos Manrique Reyes, LMGP, LTM, CEA Leti & Grenoble INP-UGA CMT.

ESONN 2026 is a two-week summer school aimed at training graduate students and early-career scientists from around the world working in the fields of nanosciences and nanotechnologies.

The program proposes lectures, seminars, and hands-on sessions delivered by leading experts, covering key topics such as the fabrication, characterization and functionalities of nanosystems.

One full week is devoted to experiments, providing valuable practical experience in research laboratories and/or technological platforms.

ORGANIZING COMMITTEE

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 CEA, Commissariat à l'Énergie Atomique et aux Énergies Alternatives

