

SPM BRUKER Iberian Users Meeting 2025

20th-21st NOVEMBER

The Iberian Meeting of AFM, BioAFM and Nanoindenter users will be held at ICMol (Valencia) from November 20th to 21st, 2025.

The aim of this meeting is to reinforce the interaction of the Bruker SPM user community in Iberia, expand the knowledge about applications and learn more about most advanced developments.

Some of the topics to be highlighted in the Meeting:

- Nanoelectrical
- Nanomechanics
- High-Speed AFM
- High resolution imaging
- Imaging of solid-liquid interfaces
- Cantilever design and dynamics
- Advanced AFM modes
- AI-guided approaches in AFM
- AFM correlation with FTIR
- AFM correlation with advanced optical techniques

Invited Speakers



Prof. Alicia Forment
ICMOL
Univ. Valencia



Prof. Annalisa Caló
IBEC
Univ. Barcelona



Prof. Alexandre
Dazzy
Univ. Paris-Saclay



Prof. Cristina Flors
IMDEA
NANOCIENCIA



Prof. Ana Kramar
Instituto Agroquímica
Tecnología de
Alimentos CSIC



Dr. Pablo Mateos-Gil
Instituto
Pluridisciplinar
Univ. Complutense



Prof. Miguel Muñoz
Instituto Ciencias
Materiales Madrid
CSIC



Prof. Jose María San
Juan
Univ. País Vasco

PROGRAM

DAY 1 THURSDAY 20 NOVEMBER

9.30-9.45	Registration and Welcome
9.45-10.00	Official opening of the meeting. Presentation of the Institute of Molecular Science (ICMol) at the University of Valencia. Prof. Eugenio Coronado
10.00-10.15	Telstar and Bruker Nano Surfaces team introduction. Emmanuel Paris. Sales Manager Europe South at Bruker Nano Surfaces
10.15-10.30	"SPM facilities and research at ICMol" Prof. Alicia Forment. ICMOL Univ. Valencia
10.30-11.00	"Latest development on AFM" PhD. Mickael Febvre. EMEA-LAM Bruker Application Manager.
11.00-11.30	Coffee break
11.30-12.30	"AFM IR to look on surface" Prof. Alexandre Dazzy. Univ. Paris-Saclay
12.30-13.00	"Scanning Thermal Microscopy to measure energy dissipation in electronic devices" Prof. Miguel Muñoz Rojo. ICMM CSIC
13.00-13.30	"Advanced AFM-IR characterization of nanofibers from polymeric blends: nanoscale insight into the chemistry and morphology" Prof. Ana Kramar. IATA CSIC
13.30-14.30	Lunch Time
14.30-18.00	Workshop sessions on AFM (MultiMode 8-HR; Dimension Icon; Nexus) BioAFM (Ultra Speed3 AFM, CellWizard Stage) Nanoindenter (TS77)
18.00	End of the workshops
19.00	Social Event at Ciutat de les Arts i les Ciències

DAY 2
FRIDAY 21 NOVEMBER

8.45	Welcome DAY 2
9.00-9.30	"How much force is needed to kill a single bacterium?" Prof. Cristina Flors. IMDEA Nanociencia
9-30-10.00	"Large-scale mechanical characterization of soft matter with the AFM from standard to advanced models" Prof. Annalisa Caló. IBEC
10.00-10.30	"Self-assembly and conformational flexibility of golgin protein GM130" Dr. Pablo Mateo-Gil. Insto. Pluridisciplinar
10.30-11.00	"Investigating dynamic processes in biological samples using bioAFM" Ph.D Andre Koernig. Senior Bruker Application Specialist
11.00-11.30	Coffee break
11.30-12.00	"Nano-compression testing in pillars and in-situ nano-tensile tests using the picoindenter in shape memory alloys" Prof. Jose María San Juan. Univ. Pais Vasco
12.00-12.30	"Mechanical Testing by Nanoindentation: Fast Calibration, Mechanical Maps and More Capabilities" PhD. Ude D. Hangen. Nanoindentation Application Manager EMEA
12.30-13.00	"Revealing Nanoscale Piezoelectricity in Molecular Materials Using Local PFM". Prof. Ramón Torres. ICMOL Univ. Valencia
13.00-14.30	Lunch Time
14.30-18.00	Workshop sessions on AFM (MultiMode 8-HR; Dimension Icon; Nexus) BioAFM (Ultra Speed3 AFM, CellWizard Stage) Nanoindenter (TS77)
18.00	Conclusions and remarks. Farewell

Useful information:

The event will be held at ICMOL facilities.

Edificios Institutos de Paterna Calle Catedrático José Beltrán Martínez, 2, 46980 Paterna, Valencia, España



Acomodation

We recommend hotels in Valencia, which are well communicated with ICMOL by tram (line 4)

- Meliá Valencia
- Sercotel Sorolla Palace
- Port Feria
- Ilunion Valencia Aqua
- Olympia Universidades
- Sweet Hotel Renasa
- Beleret

Coffees & lunches are covered by organization during the days of the meeting (20th-21st). Also, the Dinner/ Social Event on 20th. Travel and hotel costs remain at your expense.

[Register HERE](#)