NANOSCALE CHARACTERISATION WORKSHOP

Atomic Force Microscopy

31st March - 1st April 2026 @ Tyndall National Institute, Cork

Bruker, in collaboration with the Tyndall National Institute, is pleased to invite you to an upcoming workshop dedicated to the latest advances in atomic force microscopy (AFM) and their application in materials science.

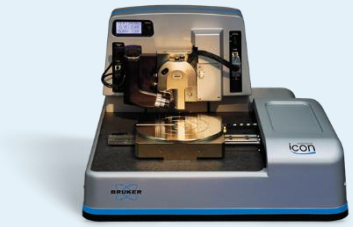
The atomic force microscope has become a true enabling platform for the visualization and probing of materials at the nanoscale. In addition to nanoscale topographical information the mapping of the respective mechanical, electrical and chemical properties has witnessed mayor technological breakthroughs over the past decade.

These include Bruker's unique Peak Force Tapping for mechanical, DataCube for electrical and AFM-IR for chemical property mapping at highest spatial resolutions, opening entire novel avenues for nanoscale materials research and development.

The goal of this workshop is to share the latest developments on novel techniques for studying micro and nano-mechanical, nano-electrical and nano-chemical properties of material sciences. This workshop will be valuable for scientists involved in material characterisation, examining nano, micro and macro mechanical testing, R&D, material development and characterisation.

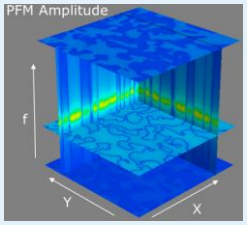
Tuesday 31st March

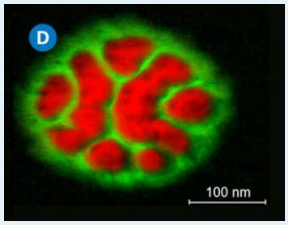
10:00 **Welcome and Introduction –** Dr Brendan Sheehan,Tyndall
10:15 **AFM Characterisation of TMD flakes –** Stephen O'Sullivan, Tyndall
10:30 **Latest advancements in AFM –** Dr Mickael Febvre, Bruker
11:15 **Coffee break**
11:30 **From Surface to Statistics: Quantitative grain size analysis of MoS2 thin films using Atomic Force Microscopy (AFM) –** Aashi Gupta, Tyndall
11:50 **Lab tours**
12:30 **Lunch Break**
On-site canteen available
14:00 **Practical demonstration: Dimension Icon AFM, various AFM modes**



Wednesday 1st April

09:30 **Practical demonstration: Dimension Icon AFM, DataCube**
Dr Mickael Febvre, Bruker
12:30 **Coffee break**
13:30 **Practical demonstration**
16:00 **Wrap up**





Workshop Location

Tyndall National Institute
University College Cork, Lee Maltings,
Dyke Parade, Cork, T12 R5CP
Room No: B0.17.

If you have questions, please contact Alison Kelly, Alison.Kelly@bruker.com

Scan the QR code or click here to register and save your space!

Innovation with Integrity