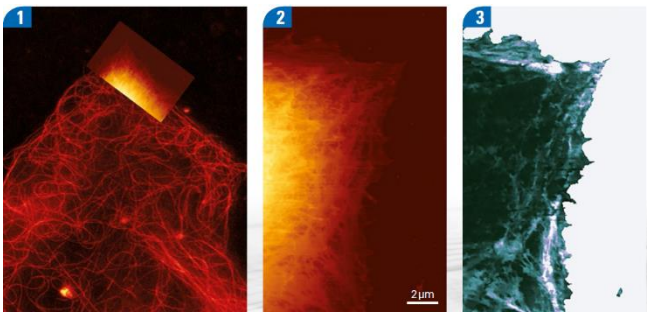
The Melbourne Centre for Nanofabrication and Coherent Scientific invite you to join us in this presentation on:

The Latest Advances in Biological Atomic Force Microscopy

Date: **Wed 19th Feb 2020**

Time: **10:00am**

Venue: **Boardroom**
Monash MCN
151 Wellington Rd, Clayton



STED and AFM experiment of living A549 cells imaged at 37°C in medium. 1/ STED image of microtubules labelled with silicon rhodamine overlayed with AFM topography. 2/ AFM QI topography image at 240pN imaging force (height range 3.5µm). 3/ Corresponding QI Young's modulus image (z range 100kPa).

The simple, reliable and multifunctional imaging capability of soft materials is the hallmark of the JPK Nanowizard Platform.

With new advances in software and hardware engineering, and the introduction of key Bruker imaging technology such as PeakForce Tapping, the **NanoWizard 4 XP** platform is the most flexible AFM platform to acquire rich and expansive information on sample topography, nanomechanical property, rheological properties, optical properties and electrical properties of materials.

With BioScience, Materials Science and NanoOptics focused configurations, and with the highest level of sample flexibility in any AFM platform, the NanoWizard4 XP allows for testing and imaging across the widest possible range of sample types from ultrasoft biological structures and gels to hard materials, with much more flexibility and control, and the highest level of optical integration available for correlative studies.

This 45min presentation will introduce you to some of the latest capabilities available using the NanoWizard platform for imaging and testing properties of soft to hard materials in air and liquid environments, combined with high performance optical and super resolution techniques.

About your presenter:
Florian Kumpfe is a Senior Application Scientist with Bruker's JPK BioAFM division in Berlin. He has 9 years experience in the preparation and imaging of soft materials, and integration with a wide range of imaging and property testing techniques, supporting researchers worldwide to establish new and innovative research capabilities.

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