

ANFF-VIC NANOFABULOUS WINTER WORKSHOP 2019

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A two-day exploration of the open-access capabilities available through ANFF-VIC

ANFF-VIC is hosting a Winter Workshop, featuring two days of technical talks and practicals for researchers that are new to nanofab, or the ANFF network.

Hear from experts and ANFF-VIC users as they discuss the open-access nanofabrication capabilities that are available in the area.

- Insight into the specialist micro and nanofabrication capabilities available within ANFF-VIC
- Hands-on practicals of capabilities
- Tours of local research infrastructure

- Redeem the full registration fee as usage credits at any ANFF-VIC location (upon completion of the workshop)

About ANFF

ANFF-VIC's parent organisation, the Australian National Fabrication Facility (ANFF) comprises eight university-based nodes across Australia that provide researchers with access to state-of-the-art micro and nanofabrication facilities.

The ANFF commitment is to provide a world-class user facility which is underpinned by the sharing of best practices in service provision across the nodes.

The capability provided by ANFF enables users to process hard materials (metals, semiconductors, composites and ceramics) and soft materials (polymers and polymer-biological moieties) and transform these into structures that have applications in sensors, medical devices, nano-photonics and nano-electronics.

More information can be found at www.anff.org.au

19th

- Electrospinning
- Multi-ion beam microscopy & nanofab
- Device integration & Packaging
- Practicals: Thin Films, Etching and Photolithography

20th

- Biointerface engineering
- Materials and Surface analysis
- Practicals: Nanolithography, Characterisation, Microfluidic device fabrication

19-20 August 2019

The Melbourne Centre
for Nanofabrication,
Clayton, Vic 3168

Click to Register
on Eventbrite:



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Below is a draft schedule for the ANFF-VIC Winter Workshop, held at the Melbourne Centre for Nanofabrication (MCN) in Clayton, VIC.

Morning talks will include:

- Technical overviews of flagship capabilities
- Application examples of these capabilities in action
- Access methods/key contacts

Afternoon sessions include a choice of:

- Practicals of nanofabrication processes held in MCN's cleanroom for small groups
- Tours of local research infrastructure including MCN and Monash Technology Research Platforms (MTRP)

Afternoon sessions have limited places and will be allocated on a first come first served basis.

Hub Focus topics:

- **Biointerface Hub (Swinburne)** – thin film deposition and surface characterisation such as plasma polymerisation, dip coating, and ellipsometry.
- **IFM (Deakin)** – Description of lab and pilot scale wet spinning capabilities
- **CMSS (La Trobe)** – Surface and interface analysis, including ToF-SIMS, XPS and Scanning Auger Microscopy
- **MTRP (Monash)** – A network of research platforms based in the Clayton Innovation Precinct
- **MCFP (UniMelb)** – Helium ion microscopy, a surface sensitive imaging microscope capable of sub-10nm resolution ion milling and nanofabrication
- **Manufacturing Business Unit (CSIRO)** – Advanced manufacturing, medtech, metal processing, aerospace, fibre industries, materials interrogation and the Biomedical Materials Translational Facility (BMTF)
- **MNRF (RMIT)** – Packaging and interfacing, nano materials, integrated photonics, flexible electronics, biomedical devices

Ticket price: \$100

Click to Register on Eventbrite:



Redeem this fee as usage credits at **any ANFF-VIC hub** (on completion of the workshop).

19th

MORNING SESSIONS

| | | |
|-------------|--|--|
| 8:30 | Registration | |
| 9:00-9:15 | Welcome | |
| 9:15-9:30 | Hub Focus: The Materials Characterisation and Fabrication Platform (MCFP) | |
| 9:30-9:45 | The University of Melbourne | |
| 9:45-10:00 | Hub Focus: Micro Nano Research Facility (MNRF) | |
| 10:00-10:15 | RMIT | |
| 10:15-10:30 | Morning Tea | |
| 10:30-10:45 | MCN Practical Talks: Thin Film Deposition, Photolithography, and Etching | |
| 11:00-11:15 | Hub Focus: Institute for Frontier Materials | |
| 11:15-11:30 | Deakin University | |
| 11:30-11:45 | Lunch | |

AFTERNOON PRACTICALS

| | | |
|-------------|----------------------------|----------------------------|
| 13:30-13:45 | Safety Briefing | |
| 13:45-15:15 | Thin Film Deposition | Photolithography & Etching |
| 15:15-15:30 | Changeover | |
| 15:30-17:00 | Photolithography & Etching | Thin Film Deposition |
| 17:00 | Close | |

20th

MORNING SESSIONS

| | | |
|-------------|--|--|
| 9:00-9:15 | Hub Focus: The Centre for Materials and Surface Science (CMSS) | |
| 9:15-9:30 | La Trobe University | |
| 9:30-9:45 | Hub Focus: The ANFF-Vic Biointerface Engineering Hub | |
| 9:45-10:00 | Swinburne | |
| 10:00-10:15 | Morning Tea | |
| 10:15-10:30 | Monash Technology Research Platforms (MTRP) | |
| 10:30-10:45 | Monash University | |
| 10:45-11:00 | Hub Focus: Manufacturing Business Unit and the BMTF | |
| 11:00-11:15 | CSIRO | |
| 11:15-11:30 | Lunch | |
| 11:30-11:45 | MCN Practical Talks: Nanolithography, Characterisation, and Microfluidic Device Fabrication | |
| 11:45-12:00 | Hub Focus: The ANFF-Vic Biointerface Engineering Hub | |
| 12:00-12:15 | Swinburne | |
| 12:15-13:00 | Lunch | |
| 13:00-13:15 | MCN Practical Talks: Nanolithography, Characterisation, and Microfluidic Device Fabrication | |
| 13:15-13:30 | Hub Focus: The ANFF-Vic Biointerface Engineering Hub | |
| 13:30-13:45 | Swinburne | |

AFTERNOON PRACTICALS

| | | |
|-------------|------------------------------------|------------------------------------|
| 13:45-14:00 | Safety Briefing | |
| 14:00-15:30 | Nanolithography & Characterisation | Microfluidic Device Fabrication |
| 15:30-15:45 | Changeover | |
| 15:45-17:15 | Microfluidic Device Fabrication | Nanolithography & Characterisation |
| 17:15 | Close | |