

## Microscopy New Zealand Conference Programme 2024

Whether your field is physical science, biological science or engineering our programme includes something for you as well as an opportunity for exposure to microscopy and microanalysis in other disciplines (see what they are up to on the ‘squishy side’ or the ‘hard side’). We also have some great workshops pre and post conference programme. Note that the programme (summary below) may change, come back and check for what’s new.

### Day 1: Monday 2nd December 2024

Time	Location	Workshops
10am - 12pm	Plant & Food Research Fitzgerald Room	Image analysis: FIJI for Beginners (part 1) Sponsored by Microscopy New Zealand (includes lunch). Sponsored by Plant & Food Research
10am - 12pm	AgResearch Taiao Room	Scanning Electron Microscopy: Master class theory and practice (part 1). Sponsored by AXT (includes lunch)
1pm - 3pm	AgResearch Ahuwhena room	Fluorescence life-time imaging confocal microscopy.
2pm - 4pm	Plant & Food Research Fitzgerald Room	Image analysis: FIJI for Beginners (part 2)
2pm - 4pm	AgResearch Taiao Room	Scanning Electron Microscopy: Master class (part 2)
Time	Location	General
3pm	Lincoln University Waimarie foyer	Setup trade displays (closes 5pm)
7pm - 9pm	AgResearch Tuhiraki Wharekai	Welcome Reception Sponsored by AXT - Tescan

### Day 2: Tuesday 3rd December 2024

Time	Location	Conference
8am	Lincoln University Waimarie foyer	Registration opens
8:40am	Lincoln University Waimarie Inaka	Welcome with a Karakia
9am - 10:40am	Lincoln University Waimarie Inaka	Morning: Session 1: Plenary, Chemical imaging using infrared microscopy at the Australian Synchrotron (Dr. Vongsvivut) Sponsored by MNZ
10:40am - 11:00am	Lincoln University Waimarie foyer	Morning tea
11:00am - 12:30pm	Lincoln University Waimarie Inaka	Morning: Session 2: Keynote, Researching human fertility, ethical and technical challenges (Dr. Reader) Sponsored by Evident

<b>Time</b>	<b>Location</b>	<b>Conference</b>
12:30pm - 1:30pm	Lincoln University Waimarie foyer	Lunch
1:30pm -3pm	Lincoln University Waimarie Inaka	Afternoon: Session 3: Keynote, Dr. Alice Eruera. Department of Microbiology and Immunology, University of Otago. Peering inside pathogens; Using cryoEM to image features inside of viruses. Sponsored by JEOL
3pm - 3:30pm	Lincoln University Waimarie foyer	Afternoon tea
3:30pm - 4:25pm	Lincoln University Waimarie Inaka	Afternoon: Session 4 -"Trade Secrets"
4:30pm	Lincoln University Waimarie Inaka	Poster session, - 2 minute talks. then poster setup time
6pm	Lincoln University Waimarie foyer	Trades and Vendor evening
<b>Day 3: Wednesday 4th December 2024</b>		

<b>Time</b>	<b>Location</b>	<b>Conference</b>
9am - 10:40am	Lincoln University Waimarie Inaka	Morning: Session 5: Keynote, Drs. Ian Hallett and Allan Mitchell. Microscopy New Zealand Inc. 50 years behind the microscope. Sponsored by MNZ
10:40am - 11:00am	Lincoln University Waimarie foyer	Morning tea
11:00am - 12:30pm	Lincoln University Waimarie Inaka	Morning: Session 6
12:30pm - 1:30pm	Lincoln University Waimarie foyer	Lunch
1:30pm - 2:30pm	Lincoln University Waimarie foyer	Poster session 2
2:30pm - 4:15pm	Lincoln University Waimarie Inaka	Afternoon: Session 7: Keynote, imaging over biological scales using optical microscopy (Dr. McMillan)
6pm	" <a href="#">The Laboratory</a> "	Evening Dinner Sponsored by Thermo Fisher Scientific
<b>Day 4: Thursday 5th December 2024</b>		

<b>Time</b>	<b>Location</b>	<b>Conference</b>
9:45am - 10:30am	Lincoln University Waimarie Inaka	Morning: Session 8: Quantifying the nanoworld: measuring mechanical properties with high-resolution AFM (Dr. Elena Taran)
10:30am - 10:45am	Lincoln University Waimarie foyer	Morning tea
10:45am - 11:30am	Lincoln University Waimarie Inaka	Session 8 continued
11:30am - 12pm	Lincoln University Waimarie Inaka	End of Conference Announcements (and prizes)
12pm	Lincoln University Waimarie Inaka	Microscopy NZ AGM
	Lincoln University Waimarie foyer	Trade display take down and clean up.

## Day 5: Friday 6th December 2024

Time	Location	Workshop
10am-12pm	AgResearch, Ahuwhena room	Advancing fluorescence microscopy using real-time computational clearing: Leica Thunder. Sponsored by Bio-Strategy - Part of DKSH Group
10am-12pm	Plant & Food Research Fitzgerald Room	Image analysis: FIJI for Quantification (part 1). Sponsored by Plant & Food Research (includes lunch)
10am - 12pm	University of Canterbury	Atomic force microscopy correlated infrared spectroscopy (part 1). Sponsored by Coherent Scientific. (includes lunch)
2pm - 4pm	Plant & Food Research Fitzgerald Room	Image analysis: FIJI for Quantification (part 2)
1pm - 3pm	University of Canterbury	Atomic force microscopy correlated infrared spectroscopy (part 2)

### Workshop Descriptions

#### Monday

**Image analysis: FIJI for Beginners.** Run by Dr. Paul McMillan. University of Melbourne. This full day course is sponsored by Microscopy New Zealand. Held at Plant and Food Research, Lincoln. Bring your own devices.

**Life Sciences: Fluorescence life-time imaging confocal microscopy.** Run by Dr. Claudia Meisrimler, University of Canterbury. This is an afternoon course, run at AgResearch, Lincoln with a live feed to a FLIM microscope laboratory at the University of Canterbury.

**Scanning Electron Microscopy master class, theory and practice.** Run by Dr Lena Wolff from AXT. This full day lecture course covers how an SEM works, best practice to operate one, understand imaging modes and how to care for the instrument. The workshop is sponsored by AXT PTY LTD and held at AgResearch Lincoln.

#### Friday

**Advancing fluorescence microscopy using real-time computational clearing: Leica Thunder.** Run by Dr. Charlotte Johnson. This morning live demonstration of the technology is sponsored by Bio-strategy – Part of DKSH Group, and will be held at AgResearch Lincoln.

**Image analysis: FIJI for Quantification.** Run by Dr. Paul McMillan. University of Melbourne. This full day course is sponsored by Microscopy New Zealand. Held at Plant and Food Research, Lincoln. **Bring your own devices.**

**NanoIR: correlative atomic force microscopy and infrared spectroscopy mapping.** Run by Dr. Mark Staiger and an application expert from Bruker, this whole day workshop is hands on and held at the University of Canterbury. Sponsored by Coherent Scientific Ltd. (Places very limited).

### Contact

Conference enquiries email address [mnz2024@microscopynz.co.nz](mailto:mnz2024@microscopynz.co.nz)