Microscopy New Zealand Conference 2024 - Full Schedule

Day 1: Monday 2nd December 2024

Time	Location	Workshops Morning Sessions
10am - 12pm, 2 - 4pm	AgResearch Ahuwhenua room	Image analysis: FIJI for Beginners. Sponsored by Plant & Food Research (includes lunch)
9am - 5pm	University of Canterbury, Engineering lecture theatre E5	Scanning Electron Microscopy: Master class theory and practice. Sponsored by AXT (includes lunch)
		Afternoon sessions
1pm - 3pm	Lincoln University Waimarie Whare Auaha meeting room	Fluorescence life-time imaging confocal microscopy (includes lunch)
Time	Location	General
3pm	Lincoln University, Waimarie foyer	Setup trade displays (closes 5pm)
	loyei	Conference staff on hand and registration desk opens
7pm - 9pm	Lincoln University, Waimarie foyer	Welcome Reception
	Day 2: Tuesday 3rd	l December 2024
Time	Location	
8:15am	Lincoln University Waimarie foyer	Registration desk opens
8:45am	Lincoln University Waimarie Inaka	Welcome with a Karakia (Dr. Duane Harland and Dr. Alice Eruera)
9am - 10:40am	Lincoln University Waimarie Inaka	Morning: Session 1
	9am - 10:00am	Morning: Session 1: Chemical imaging using infrared microscopy at the Australian Synchrotron
	10:00am - 10:20am	(Dr. Pimm Vongsvivut): Sponsored by MNZ Inc. Decoding hair fibre genesis: 3D mitotic cycle exploration through volume electron
	10:20am - 10:40am	microscopy (Mr. Nickhil Jadav) Accelerating cryoEM structure determination with SBGrid (Dr. Shaun Rawson)
10:40am - 11:00am	Lincoln University Waimarie foyer	Morning tea
		NOTE: no food or drinks allowed in the Inaka

lecture room

11:00am - 12:30pm	Lincoln University Waimarie Inaka	Morning: Session 2
•	11:00am - 11:50am	Morning: Session 2: Researching human fertility, ethical and technical challenges (Dr.
	11:50am - 12:10PM	Karen Reader): Sponsored by Evident Wellington Bioimaging Group: enhancing regional imaging support and collaboration. (Dr. Alfonso Schmidt).
	12:10PM - 12:30PM	An investigation into the internal structure of sheep wool hair fibre (Ms. Georgia Rutter)
12:30pm - 1:30pm	Lincoln University Waimarie foyer	Lunch
-		NOTE: no food or drinks allowed in the Inaka lecture room
1:30pm -3pm	Lincoln University Waimarie Inaka	Afternoon: Session 3
	1:30pm - 2:20pm	Afternoon: Session 3: Peering inside pathogens; Using cryoEM to image features inside of viruses (Dr. Alice Eruera): Sponsored by JEOL
	2:20pm - 2:40pm	Microstructure decomposition of biological samples using propagation-based dark-field x-ray imaging. (Jeremy Stockdill)
	2:40pm-3:00pm	The long and winding road, story of Adelaide Microscopy at the University of Adelaide (Mr. Angus Netting)
3pm - 3:30pm	Lincoln University Waimarie foyer	Afternoon tea NOTE: no food or drinks allowed in the Inaka lecture room
3:30pm - 5:00pm	Lincoln University Waimarie Inaka	Afternoon: Session 4 - "Trade Secrets", sponsored by Microscopy New Zealand Inc.
	3:30pm - 3:45pm	Thermo Fisher Scientific
	3:45pm - 3:55pm	Evident
	3:55pm - 4:05pm	JEOL
	1 1	AXT
	4:15pm - 4:25pm	Bio-Strategy
4:45pm	Lincoln University Waimarie Inaka	Poster session, - 2 minute talks. then poster setup time.
6:00pm	Lincoln University Waimarie foyer	Trades and Vendor evening

Day 3: Wednesday 4th December 2024

9am - 10:40am	Lincoln University Waimarie Inaka	Morning: Session 5
	9am - 10:00am	Morning: Session 5: 50 years behind the microscope (Drs. Allan Mitchell and Ian
	10:00am - 10:20am	Hallett): Sponsored by MNZ Inc. Using SEM as a tool to understand the basis of insect communication with their surrounding world (Dr. Lee-Anne Manning)
	10:20am - 10:40am	A Tale of Two Tails: Unveiling the Architecture of Two Contractile Phage Tails (Dr. Mihnea Bostina)
10:40am - 11:00am	Lincoln University Waimarie foyer	Morning tea
11:00am -	Lincoln University Waimarie Inaka	NOTE: no food or drinks allowed in the Inaka lecture room Morning: Session 6
12:40pm	Lincom Oniversity Wannarie maka	Worling. Session o
•	11:00am - 11:40am	X-ray photoelectron spectroscopy (XPS): from basic principles, to selected case studies and new capabilities at the University of Canterbury
	11:40am - 12:00pm	(Dr. Vladimir Golovko) Developing a deep learning tool for generalised volume electron microscopy samples segmentation. (Yuyao (Daniel) Huang)
	12:00pm - 12:20pm	mtDNA Release in MEFs: Investigating Mitochondrial Herniation with FIB Milling and Cryo-Electron Tomography (Dr. Sailakshmi Velamoor)
	12:20pm - 12:40pm	Large-scale TEM-MAPS: navigating the complex ultrastructure of biological systems (Dr. Marina Richena)
12:40pm - 2:30pm	Lincoln University Waimarie foyer	Lunch and poster session
		NOTE: no food or drinks allowed in the Inaka lecture room
2:30pm - 4:15pm	Lincoln University Waimarie Inaka	Afternoon: Session 7
	2:30pm - 3:20pm	Afternoon: Session 7: Keynote, imaging over biological scales using optical microscopy (Dr. Paul McMillan)
	3:15pm - 3:45pm	Paul McMillan) The Centre for Electron Microscopy and Materials Science (CEMMS) at The University of Auckland – Review of NZ's latest SEM, FIB- SEM and Nanoindentation Instruments. (Dr. Steven Matthews)
	3:45pm - 4:05pm	Genome Uncoating of Seneca Valley Virus (Ms. Rosheny Kumaran)

	4:05pm-4:25pm	Title TBC - brain science (Dr. Anna Mitchell)		
6pm	The Laboratory, 17 West Belt, Lincoln 7608	Evening Dinner sponsored by Thermo Fisher Scientific		
	Day 4: Thursday 5t	h December 2024		
9:40am - 10:30am	Lincoln University Waimarie Inaka	Morning: Session 8		
	9:40am - 10:30am	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		
10.434111		NOTE: no food or drinks allowed in the Inaka lecture room		
10:45am - 11:30am	Lincoln University Waimarie Inaka	Session 8 continued		
	10:45am - 11:05am	Illuminating the response of tumour suppressor p16INK4a to oxidation in human cells. (Alex Botha)		
	11:05am - 11:35am	Spectroscopy coupled microscopy applied to speciation of air particulate matter (Dr. Cherie Tollemache)		
11:35am	Lincoln University Waimarie Inaka End of Conference Announcements (and prizes)			
12:00pm	Lincoln University Waimarie Inaka	MicroscopyNZ AGM		
2:00-4:00	Lincoln University TBC	Workshop: Training topaz models for improved particle picking in single particle cryoEM		
Day 5: Friday 6th December 2024				
Time	Location	Workshops		
0 40	T	Morning Sessions		
.uam - 12pm	Lincoln University Walmarie foyer	Advancing fluorescence microscopy using real- time computational clearing: Leica Thunder. Sponsored by Bio-Strategy - Part of DKSH		

Location	Workshops
	Morning Sessions
Lincoln University Waimarie foyer	Advancing fluorescence microscopy using real- time computational clearing: Leica Thunder.
	Sponsored by Bio-Strategy - Part of DKSH
	Group
AgResearch, Ahuwhenua room	Image analysis: FIJI for Quantification.
	Sponsored by Plant & Food Research (includes
	lunch)
University of Canterbury,	Atomic force microscopy correlated infrared
Engineering lecture theatre E5	spectroscopy. Sponsored by Coherent Scientific. (includes lunch)
	Lincoln University Waimarie foyer AgResearch, Ahuwhenua room University of Canterbury,