UNIVERSITY OF WATERLOO | WATERLOO INSTITUTE FOR nanotechnology

Canada's Largest Nanotechnology Institute

WIN SUMMER SCHOOL

ON MED-TECH & SUSTAINABLE NANOTECHNOLOGY

June 2 - 4, 2025

APPLICATION DEADLINE: APRIL 28, 2025

Free Tuition, Free Accommodation, and $500 for Travel Support

Open to Canadian Undergraduate students in STEM! (must be a Canadian Citizen or Permanent Resident to apply)

Limited spots available. Apply now!

SPOTS RESERVED for University of Waterloo Faculty of Health Undergraduate students.

LECTURES

Knowledge of nanotec, mentored by researchers, meet the Professors

TOURS

Tour our state-of the art laboratories, start-ups, incubation facilities, and industrial innovative companies

ENTREPRENEURSHIP

Show your skills and present your business ideas

TOPIC AREAS INCLUDE:

- SMART AND FUNCTIONAL MATERIALS
- CONNECTED DEVICES
- NEXT GENERATION ENERGY SYSTEMS
- THERAPEUTICS AND THERANOSTICS

SCAN FOR MORE DETAILS & TO APPLY NOW!

SUSTAINABLE DEVELOPMENT GOALS

WIN SUMMER SCHOOL

ON MED-TECH & SUSTAINABLE NANOTECHNOLOGY

LEARN ABOUT RESEARCH FROM THESE WIN MEMBERS AND THEIR RESEARCH TEAMS

Dayan Ban
Professor,
Electrical and Computer Engineering

Malah Poudineh
Assistant Professor,
Electrical and Computer Engineering

Melanie Campbell
Professor,
Physics and Astronomy

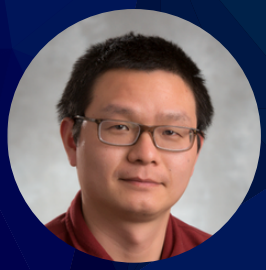
Armaghan Salehian
Associate Professor,
Mechanical and Mechatronics Engineering

Juewen Liu
Professor,
Chemistry

Leonardo Simon
Professor,
Chemical Engineering

Raafat Mansour
Professor,
Electrical and Computer Engineering

Michael Tam
Professor,
Chemical Engineering



Peng Peng
Assistant Professor,
Mechanical and Mechatronics Engineering

Yimin Wu
Assistant Professor,
Mechanical and Mechatronics Engineering

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SUSTAINABLE DEVELOPMENT GOALS

AGENDA

Monday June 2, 2025

TIME	EVENT	LOCATION
8:30 - 9:00 AM	Regisration & Breakfast	QNC 1501
9:00 - 9:10 AM	Opening Remarks	QNC 1501
9:10 - 9:25 AM	Briefing	QNC 1501
9:25 - 9:55 AM	Mahla Poudineh Lecture Wearable devices for Continuous Monitoring of Biomarkers related to Diabetes Presented by: Sadegh Sadesghzadeh	QNC 1501
9:55 - 10:25 AM	Juewen Liu Lecture Unveiling Design Strategies, Functional Metrits, and Multidisciplinary Implementations Presented by: Yuzhe Ding	QNC 1501
10:25 - 10:35 AM	Break	QNC 1501
10:35 - 11:05 AM	Laboratory Tour toured by the instructors of lecture QNC 3508: Sadegh Sadesghzadeh	Group A: QNC 3508 Group B: QNC 5506/5508
11:05 - 11:35 AM	Laboratory Tour toured by the instructors of lecture QNC 5506/5508: Yuzhe Ding	Group B: QNC 3508 Group A: QNC 5506/5508
11:35 - 12:05 PM	Dayan Ban Lecture Integration of Photonics and Microfluidics for Real-time Continuous Monitoring of Multiple Biomarkers Presented by: Md Fahim Al Fattah Lecture	QNC 1501
12:05 - 12:35 PM	Michael Tam / Yimin Wu Lecture Sustainable Biomass-based Flexible Sensor for Real-time Health Monitoring Presented by: Youchao Teng Lecture	QNC 1501
12:35 - 1:20 PM	Lunch	QNC 1501

Note: Due to the restriction of the amount of people in the laboratory, students will be separated into 2 groups (Group A & Group B) & swapping to attend the laboratory tour.

AGENDA

Monday June 2, 2025

TIME	EVENT	LOCATION
1:20 -1:50 PM	Laboratory Tour toured by the instructors of lecture QNC B517: Md Fahim Al Fattah	Group A: QNC B517 Group B: QNC 5603
1:50 - 2:30 PM	Laboratory Tour toured by the instructors of lecture QNC 5603: Youchao Teng	Group B: QNC B517 Group A: QNC 5603
2:30 - 2:40 PM	Break	
2:40 - 3:10 PM	Peng Peng Lecture Laser-induced Graphene; Fabrication and Applications in Flexible Electronics Presented by: Mohammad Nankali	QNC 1501
3:10 -3:40 PM	Raafat Mansour Lecture Monolithic Integration of Ferroelectirc and Phase-Change Materials for Next-Generation RF Tunable Devices Presented by: Mehran Golcheshmeh	QNC 1501
3:45 -4:15 PM	Laboratory Tour toured by the instructors of lecture E3 2103B: Mohammad Nankali	Group A: E3 2103B Group B: CIRFE
4:20 -4:50 PM	Laboratory Tour toured by the instructors of lecture DC 3584: Mehran Golcheshmeh	Group B: E3 2103B Group A: DC 3584
4:50 - 5:00 PM	Wrap Up	QNC 1501
5:00 - 6:00 PM	Dinner	

Note: Due to the restriction of the amount of people in the laboratory, students will be separated into 2 groups (Group A & Group B) & swapping to attend the laboratory tour.

AGENDA

Tuesday June 3, 2025

TIME	EVENT	LOCATION
8:30 - 9:00 AM	Breakfast	QNC 1501
9:00 - 9:30 AM	Armaghan Salehian Lecture Smart Materials Technology for Sensing and Actuation Applications	QNC 1501
9:30 – 10:00 AM	Leonardo Simon Lecture Nanocellulose as a functional filler Presented by: Azin Adibi	QNC 1501
10:00 - 10:30 AM	Laboratory Tour toured by the instructors of lecture DC 1702: Armaghan Salehian	Group A: DC 1702 Group B: DWE 1524
10:30 – 11:00 AM	Laboratory Tour toured by the instructors of lecture DWE 1524: Azin Adibi	Group B: DC 1702 Group A: DWE 1524
11:00 - 11:10 AM	Break	QNC 1501
11:10 - 11:40 AM	Melanie Cambell Lecture Early Detection of Alzheimer's and other Brain Diseases via Novel Retinal Imaging	QNC 1501
11:40 AM - 12:10 PM	Linda Nazar Lecture Sodium – ion batteries and it role in future electrification Presented by: Vipin K. SIngh	QNC 1501
12:10 - 12:40 PM	Laboratory Tour toured by the instructors of lecture PHYS 315: Melanie Cambell	Group A: PHYS 315 Group B: QNC 3517
12:40 – 1:25 PM	Laboratory Tour toured by the instructors of lecture QNC 3517: Vipin K. SIngh	Group B: PHYS 315 Group A: QNC 3517

Note: Due to the restriction of the amount of people in the laboratory, students will be separated into 2 groups (Group A & Group B) & swapping to attend the laboratory tour.

AGENDA

Tuesday June 3, 2025

TIME	EVENT	LOCATION
1:10 -1:55 PM	Lunch	QNC 1501
1:55 - 2:40 PM	Laboratory Tour toured by the instructors of lecture C2 172: Rodney Smith	C2 172
2:40 - 6:40 PM	Hackathon and meet up with the Faculty of Math	QNC 1501
6:40 PM	Dinner & Group Discussion	

AGENDA

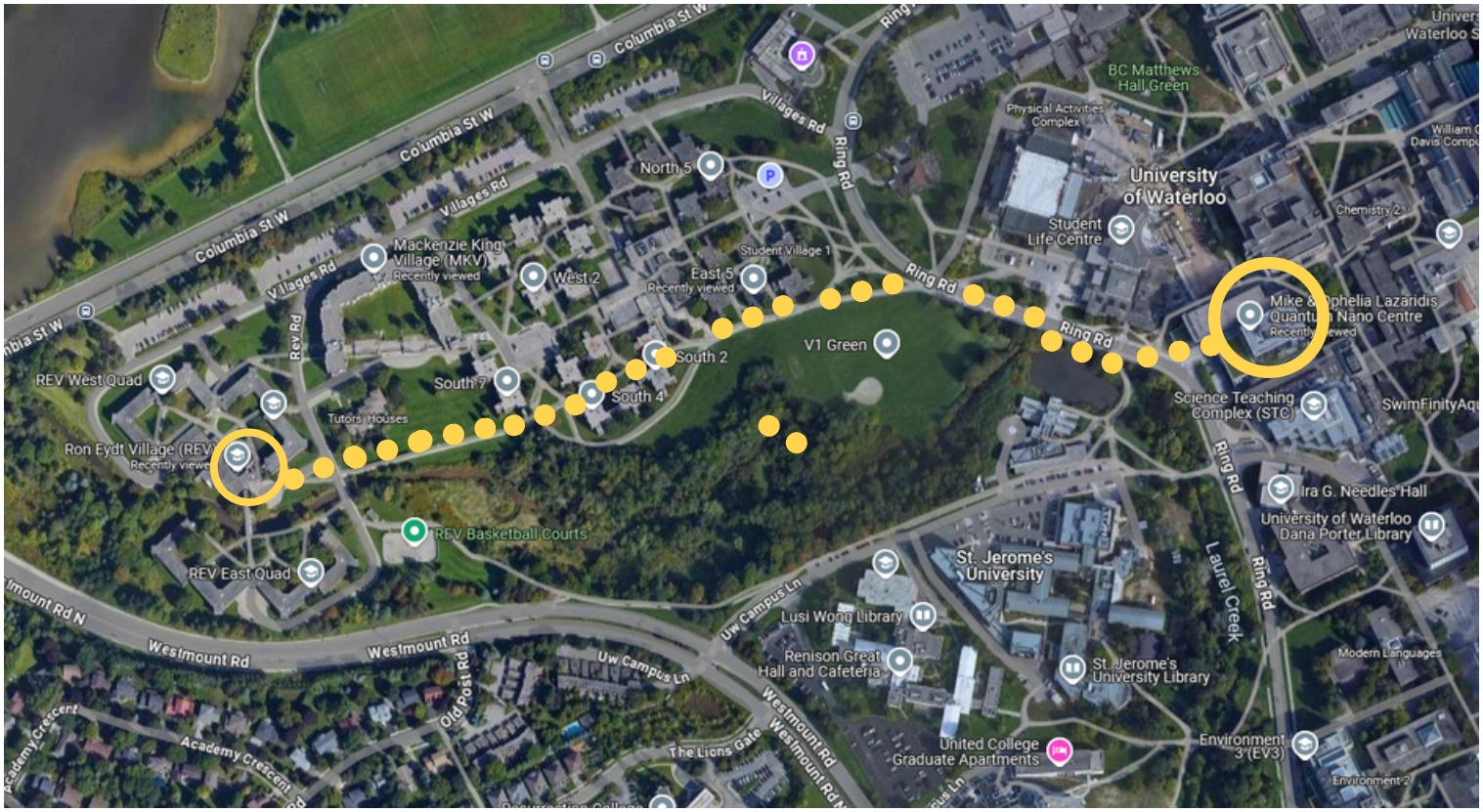
Wednesday June 4, 2025

TIME	EVENT	LOCATION
STUDENTS PLEASE CHECK OUT OF RESIDANCE BEFORE COMING TO BREAKFAST		
8:30 – 9:00 AM	Breakfast	QNC 1501
9:00 – 9:30 AM	Relocate from QNC to Velocity Innovation Arena	
9:30 – 10:30 AM	Touring Velocity Innovation Arena	Kichener
10:30 – 11: 00 AM	Relocate from Velocity Innovation Arena to Startup Company	Kichener
11:00 - 12:00 PM	Touring Startup	Kichener
12:00 -12:30 PM	Relocate from Startup Company to Campus	
12:30 - 1:15 PM	Lunch	
1:15 - 3:15 PM	Afternoon Presentation	QNC 1501
3:15 - 3:30 PM	Closing Remarks	QNC 1501
3:30 PM	End of WIN Summer School	

MAP - REV TO QNC

Directions

Ron Eydt Village (REV) → Mike & Ophelia Lazaridis Quantum-Nano Centre (QNC)



[Click Here for Google Map Directons]

RESOURCES

UW Campus Map

https://uwaterloo.ca/map/

WIN Office Contact Info

Mike & Ophelia Lazaridis Quantum Nano Centre, 200 University Ave W, Waterloo, ON N2L 3G1

win-office@uwaterloo.ca

dennis.wong@uwaterloo.ca

+1 -437-663-9037 (mobile of Dennis)

UW Special Constable Services

https://uwaterloo.ca/special-constable-service/

Campus Resources

https://uwaterloo.ca/human-resources/support-employees/campus-resources