



WATERLOO NANOTECHNOLOGY CONFERENCE

SATURDAY NOVEMBER 18, 2017

MIKE & OPHELIA LAZARIDIS
QUANTUM-NANO CENTRE

We encourage you to explore possibilities in the nanoscale.

INFORMATION PACKAGE

» Learn about the impact you can have by joining us on this journey.

 fb.com/waterlooundergradnanoconference  www.wunc.ca  wunc@uwaterloo.ca



**WATERLOO
ENGINEERING**

**WATERLOO
SCIENCE**

**NANOTECHNOLOGY
ENGINEERING**



**UNIVERSITY OF
WATERLOO**



*Nanotechnology: a small world with **huge** possibilities.*

On November 18, the Waterloo Nanotechnology Conference (WNC) – formerly known as the Waterloo Undergraduate Nanotechnology Conference (WUNC), will enter its third year – bringing together academia, industry, and entrepreneurs. We will discuss the past, present, and future of nanotechnology, with the goal of presenting role models and inspiration to the next wave of nanotechnology innovators.

Join us. See what students are capable of and discover how they are uniquely qualified to contribute towards the success of research, industry, policy, and more. Share your expertise and your story. By supporting us, you have a unique opportunity of showing your dedication and commitment to reassuring students of the bright future ahead of them, and the unique opportunities they have in Waterloo, in Canada, and beyond.

Join us and over 200 students to reveal and celebrate the impact of nanotechnology. Help us share the excitement and inspire everyone to play their part in advancing technology by thinking smaller. Join our vision, and invest in the next generation of innovation.

Sincerely,

Jatin Patil
Chair, WNC 2017

What is WNC?

WNC is a student-organized conference that provides an opportunity for students, employers, and entrepreneurs to learn from one another, strengthening our mutual understanding about how nanotechnology is taught and how it is used in industry, in innovative research, and how it is powering new ventures.

We will educate and inspire our participants with exciting speakers, an informative industry panel discussion, and other interactive activities.

In the past, we have attracted everyone – ranging from high-school students to seasoned senior undergraduates to graduate students – who seek an exclusive opportunity to learn about different career paths and the opportunities and resources available to them.

The Team

WNC Student Committee



Thomas Storwick, Mayuran Saravanapavanantham, Akshayaa Govindann, Alisha Bhanji, Jatin Patil, Irene Lau. *Not shown: Seneca Velling, Tabi Salimi, Sahad Vasanji*

WNC Advisory Committee



Shirley Tang, Jenn Coggan Arthur Carty, Alain Francq, Caroline Brookes

Event Highlights

Keynote speakers



Dr. Vladimir Bulović, Associate Dean for Innovation, and Professor at MIT's School of Engineering, talks to a few of the 220 eager attendees from his keynote talk. He highlighted and discussed the research, development, and impact of nanotechnology-enabled innovations at both MIT and in Waterloo. (WUNC 2016)

Dr. Mark MacLachlan, Professor at UBC's Department of Chemistry, discusses undergraduate research with conference delegates at the poster session. His keynote talk addressed the presence of nanotechnology in nature, and recent discoveries of harnessing it as nature has for millennia. (WUNC 2015)



Industry panel



Simon Guthrie, Lead Investigator at Christie Digital, shares some honest and relatable advice on working in teams from his experience with Christie. The industry panel is an open and friendly forum for industry representatives to discuss their experiences and advice for students looking to enter the next stage of their careers. (WUNC 2015)

Dr. Ian Burgess, CEO of Validere Technologies, reflects upon a question posed to the panel. Discussions ranged from starting a company to life in industry. The panel addressed current concerns of entering the job market, the ups and downs of starting a company, and shared some advice for students seeking inspiration. (WUNC 2016)

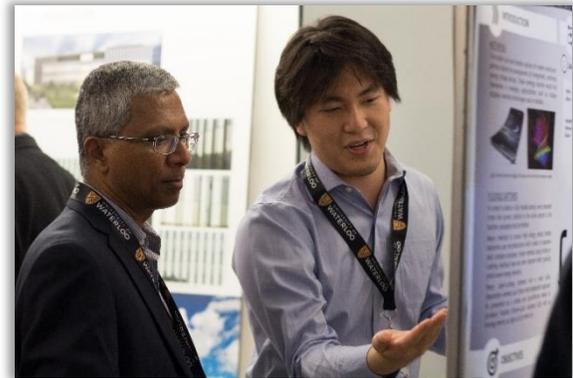


Poster / networking session



Students flock to the start-up company booths to learn more about recent advances, company culture, and job prospects. Poster sessions also include booths from student design teams and researchers at the University of Waterloo. (WUNC 2016)

Many students, including organizers and volunteers, come together to show their research from previous co-op terms at the poster session. This is a great opportunity to engage other students in an open learning environment. (WUNC 2016)

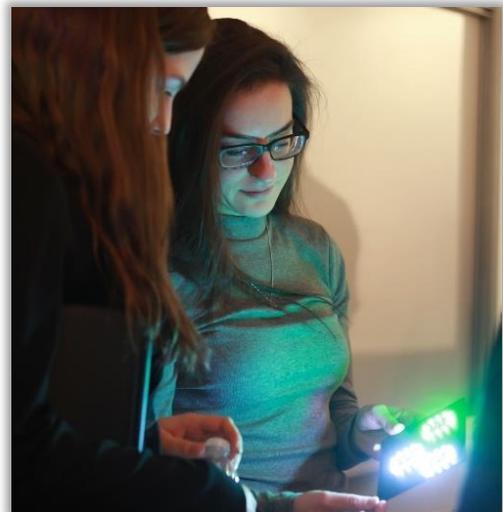


Breakout sessions



Tim Leshuk, Graduate student at the University of Waterloo and Co-founder of H2nanO, gives a brief talk on his work on water treatment systems. Breakout sessions allow attendees to glimpse new and impactful work enabled by nanotechnology. (WUNC 2015)

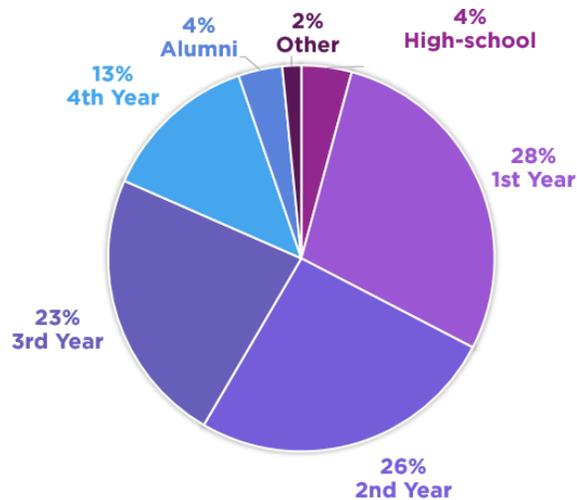
Katarina Ilic, Head of Research and Development at Voltera, shows a printed circuit board with LEDs. She talked about her transition from a nanotechnology research background to starting a company. She gave personal advice and shared the philosophy of Voltera – to show how nanotechnology can make a global impact. (WUNC 2016)



About our Delegates

Who will you find at WNC?

Attendees by year of study



Attendees from other universities



What students say about WNC

"I have learned so much from the conference and [it] has also fortified my passions for nanotechnology. It was a great learning experience that I was so happy to be a part of."

– Nicholas A. S., High school student

"WUNC was the highlight of my fall term last year, and I was incredibly excited by the speakers and activities... I gained so much from this event"

– Sinclair M., 2A Nanotechnology Engineering

"I attended the WUNC 2016 conference as my first WUNC experience and, in brief, I was amazed. What made the experience truly amazing in my eyes was the diverse perspectives from all of the guest speakers."

– Austin B., 3B Nanotechnology Engineering

Past Supporters

Academic speakers



THE UNIVERSITY
OF BRITISH COLUMBIA

Industry panelists



Other speakers and posters



WNC 2017

Keynote Speaker

Joanna Aizenberg

- Amy Smith Berylson **Professor of Materials Science** at the School of Engineering, *Harvard University*
- **Co-Director** of the *Kavli Institute for Bionano Science and Technology*
- **Core Faculty** at the *Wyss Institute for Biologically Inspired Engineering*

Joanna Aizenberg teaches chemistry and chemical biology at Harvard University. She is a prominent figure in the field of biologically inspired materials science, having authored 90 publications and holding 25 patents. Her research is inspired by nature's ability to solve complex problems and self-assemble functional materials. She uses biological principles as guidance in developing new, bio-inspired synthetic routes and nanofabrication strategies that would lead to advanced materials and devices.

Professor Aizenberg has already engaged significantly with the Waterloo community. Over the past 9 years, she has hired **over 40 co-op students** and **4 graduate students** from the University of Waterloo. She encouraged nascent companies from her labs – namely SLIPS Technologies and Validere Technologies – to take on co-ops to help launch their companies. Validere's CEO and VP of Product are both Waterloo alumni who have now based their operations in Canada.



Other Speakers and Events

We have many more surprises planned for the next Waterloo Nanotechnology Conference, and we would be delighted to share them with you as we finalize the details.

Make sure to stay updated about our channels – such as Facebook, e-mail, and more. We look forward to presenting future innovators with **impactful academics, industry representatives, and entrepreneurs** to give them a better understanding of what their **future** holds for them, and how **nanotechnology will be a part of it.**



WNC

Thank you.

We hope you were inspired by our story - and we invite you to be a part of it. Your contribution is as crucial as ever to our success. Join our quest to inspire the next generation of nanotechnology innovators.

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