



WATERLOO INSTITUTE FOR NANOTECHNOLOGY PRESENTS

Nanotechnology for a Sustainable Future

An International Workshop

November 19 - 20, 2020

Online via WebEx

Waterloo Institute for Nanotechnology
International Workshop on Nanotechnology for a Sustainable Future
Agenda

**entire program will be recorded to enable virtual viewing across four continents*

Thursday 19 November 2020 (EST)

Click here to register for Day 1 of the conference

| TIME | SCHEDULE |
|---|---|
| 17h00-17h10 | Registration |
| 17h10 – 17h30 EST (23h10CET; 7h10JST; 9h10AEST) | Welcoming remarks (list of speakers below) |
| 17h10 – 17h13 | Charmaine Dean , University of Waterloo, Vice President Research International |
| 17h14 – 17h16 | Ambassador of the Kingdom of the Netherlands to Canada |
| 17h17 – 17h19 | Alejandro Adem , President NSERC |
| 17h20 – 17h22 (7h20 – 7h22 JST) | Michinari Hamaguchi , President JST |
| 17h22 – 17h25 (9h22 – 9h25 AUDT) | Ben Eggleton , University of Sydney Nano Institute (Sydney Nano) |
| 17h25 – 17h28 (14h25 – 14h28 PST) | Paul Weiss , Editor-in-Chief, ACS Nano |
| 17h28 – 17h30 | Sushanta Mitra , Executive Director, Waterloo Institute for Nanotechnology (WIN) |
| | <i>Session 1: Nanotechnology and Society, Policy and Science Diplomacy (UNSDG #8, 10, 16, 17); Session Lead: Juniche Sone; Session Facilitator: Oleg Stukalov</i> |
| 17h30 – 17h50 (23h30 – 23h30 CET) | Speaker 1 NL: Albert van den Berg , MESA+ Institute for Nanotechnology, Netherlands |
| 17h50 – 18h10 (7h50 – 8h10 JST) | Speaker 1 JST: Jun'ichi Sone , JST Japan |
| 18h10 – 18h30 (10h10 – 10h30 AEDT) | Speaker 1 AUS: Steven Maguire , Sydney Nano |
| 18h30 – 18h50 | Speaker 1 Canada: Marc Fortin , Natural Sciences and Engineering Research Council (NSERC) |
| | <i>Session 2: Industry & Innovation (UNSDG #9, 11) Session Lead: Elicia Maine; Session Facilitator: Lisa Pokrajac</i> |
| 18h50 – 19h10 (8h50 – 9h10 JST) | Speaker 2 JST: Toyohiro Chikyow : Assistant General Manager, Group Leader, of Materials Data & Integrated System, NIMS “Challenge for new materials design by data driven materials science and high throughput experimentation” |

| | |
|---------------------------------------|---|
| 19h10 – 19h30 (11h10 – 11h30 AEDT) | Speaker 2 AUS: James Rabeau , Sydney Nano |
| 19h30 – 19h50 (16h30 – 16h50 PST) | Speaker 2 SFU: Elicia Maine : Professor Simon Fraser University “Enabling Nanotechnology Solutions for a Sustainable Future: Endowing University Spinoffs Pre-Formation” |
| | <i>Session 3: Energy & Environment (UNSDG #7, 13) Session Lead: Sushanta Mitra; Session Facilitator: TBA</i> |
| 19h50 – 20h10 (9h50 – 10h10 JST) | Speaker 3 JST: Takanobu Watanabe : Professor of Waseda University "Energy harvesting Si devices" |
| 20h10 – 20h30 (12h10 – 12h30 AEDT) | Speaker 3 AUS: Anita Ho-Baillie , Sydney Nano |
| | <i>Session 4: Devices & Technology for Healthcare (including Covid-19) and Communications/Photonics (UNSDG #3, 9 & 11)) Session Lead: Sushanta Mitra; Session Facilitator: TBA</i> |
| 20h30 – 20h50 (12h30 – 12h50 AEDT) | Speaker 4 AUS: Allison Tong , Sydney Nano “Research priorities for sensor technology to address COVID-19” |
| | All presentations from Thursday 19 November 2020 (EST) to be posted online for viewing |

Friday 20 November 2020 (EST)

[Click here to register for Day 2 of the conference](#)

| TIME | SCHEDULE |
|--------------------------------------|--|
| | <i>Session 2 (continued): Industry & Innovation (UNSDG #9, 11) Session Lead: Oleg Stukalov; Facilitator: Isabella McKenzie</i> |
| 9h20 – 9h50 (15h20 – 15h50 CET) | Speaker 2 NL: Ronny Van t Oever , CEO Micronit, chair MinacNed: “Nano SME activities” |
| 9h40 – 10h00 | Speaker 2 WIN: Oleg Stukalov ; WIN Business Development Manager |
| 10h00 – 10h20 (16h00 – 16h20 CET) | Speaker 2B NL: Adrienne Sips , RIVM-nano: “Technology Readiness Level (RL)-System RL-Regulatory RL” |
| | <i>Session 3 (continued): Energy & Environment (UNSDG #7, 13) Session Lead: Sushanta Mitra; Facilitator: TBA</i> |
| 10h20 – 10h40 (16h20 – 16h40 CET) | Speaker 3 WIN: Linda Nazar , Professor, University of Waterloo |
| 10h40 – 11h00 | Speaker 3 NL: Pieter Tellemen , Business Director MESA+: “Triple Helix government-industry-research institute” |
| 11h00 – 11h20 | Speaker 3 Canada: David Sinton , Professor, University of Toronto |

| | |
|--|---|
| 11h20 – 11h35 | Morning Break |
| | <i>Session 4 (continued): Devices & Technology for Healthcare (including Covid-19) and Communications/Photonics (UNSDG #3, 9 & 11) Session Lead: Albert van den Berg Facilitator: TBA</i> |
| 11h15 – 11h35 (17h15 – 17h35 CET) | Speaker 4 NL: Albert van den Berg , co-Science Director MESA+, chair NanoNextNL: “Nano4Society, Nano4Health” |
| 11h35 – 11h55 | Speaker 4 WIN: Karim Karim , Executive Director of Centre for Bioengineering and Biotechnology, and WIN Member, University of Waterloo - confirmed |
| 11h55 – 12h15 | Speaker 4 Canada: Warren Chan , Director, Institute for Bioengineering, University of Toronto |
| 12h15 – 13h30 | Lunch Break |
| | <i>Session 5 (continued): Resource Management and the Circular Economy (UNSDG #6, 11, 12, 13, 17) Session Lead: Jatin Nathwani; Facilitator: Lisa Pokrajac</i> |
| 13h30 – 13h50 (19h30 – 19h50 CET) | Speaker 5 NL: Karin Schroen Professor, Wageningen University: “Nano4Agri/Food” |
| 13h50 – 14h10 (19h50 – 20h10 CET) | Speaker 5B NL: Guus Rijnders , co-Science Director MESA+, chair NanoLab NL: “Nanomaterials for energy & sustainability and NanoLabNL facilities” |
| 14h10 – 14h30 | Speaker 5 WIN: Goretty Dias , Professor and WIN Member, University of Waterloo – confirmed |
| 14h30 – 14h50 | Speaker 5 WIN: Jatin Nathwani : Executive Director Waterloo Institute for Sustainable Energy and WIN member, University of Waterloo – confirmed |
| 14h50 – 18h00 | Afternoon Break |
| | All presentations will be posted online for viewing |
| | <i>Session 4 (continued): Devices & Technology for Healthcare (including Covid-19) and Communications/Photonics (UNSDG #3, 9 & 11) Session Lead: Sushanta Mitra; Facilitator: TBA</i> |
| 18h00 – 18h20 (8h00 – 8h20 JST 21 Nov) | Speaker 4 JST: Ken Uchida , Professor, University of Tokyo: "Nanoscale thermal management for low-energy integrated electronics in the Internet-of-Things era" |
| | <i>Session 5 (continued): Resource Management and the Circular Economy (UNSDG #6, 11, 12, 13, 17) Session Lead: Ben Eggleton; Facilitator: TBA</i> |
| 18h20 – 18h40 (8h20 – 8h40 JST 21 Nov) | Speaker 5 JST: Ryotaro Matsuda : Professor of Nagoya University “Management of gas and heat by nanoporous metal complexes” |
| 18h40 – 19h00 (10h40 – 11h00 21 Nov) | Speaker 5 AUS: Ali Abbas , Sydney Nano |
| | “International Network4Sustianatble Nanotechnology” and Roundtable Discussions to be set for following week (or beginning of December 2020) |