



2019 Innovation Nation Conference & Student Showcase Sunday, January 20, 2019 | LIUNA Station, Hamilton ON

7:30 am Registration – Main Lobby

Speakers – Grand Central Ballroom

8:25 am Dr. Mehran Anvari, Scientific Director, CSii
"Opening Remarks"

8:30 am Mini Thomas, Professor of Electrical and Computer Engineering Department, Mohawk College
Title: *"Automated Real Time Seizure Detection using Wearable Body Sensor Network"*

9:00 am Sri Krishnan, Associate Dean, Research and External Partnerships
Ryerson University
Title: *"Connecting Healthcare"*

9:30 am 3D Printer, Swaleh Owais, McMaster Engineering
YuMi Assembly Station, Justin Grimm, Amy Hasselman, Simran Nijjar,
Samony Riyaz, McMaster Engineering
Smart Wheelchair for the Physically Challenged, Hamza Mahdi, Abdalrahman Alfakir,
Nadim Hafez, Ryerson University

9:40 am Emma Mogus, Inventor, Philanthropist, Student
Title *"No Bounds"*

10:10 am Allan F. Miranda, Head of JLABS, Canada
Title: *"The Digital Age: Getting Digital Health Start-ups to Commercialization"*

10:40 am Refreshment Break – Grand Central Ballroom

11:05 am Portable Electric Wheel Chair Drive, Milan Izzo, Vito Naso, Jon Breton, McMaster
University
Inverted Pendulum, Matt Stewart, Ben Harvey, McMaster University
AI for Facial Recognition, Anoop Gadhri, McMaster Engineering

11:20 am Isabelle Tremblay, Director, Astronauts, Life Science and Medicine, Canadian Space
Agency
Title: *"Conquering the challenges of human space exploration".*

11:50 am Liz Warren, NASA International Space Station, National Lab
Title: *"Exploring New Frontiers: Science on the International Space Station"*



Innovation Nation Conference & Student Innovation Showcase

12:20 am **Ryerson Rams Robotics Mars Rover**, Hamza Mahdi, Ryerson University

Eco-Pen, Rucha Kolte, Ali Awais Amin, McMaster University

Smart Cast, Christopher Lamont, St Margaret Mary School

Home Lighting Automation, Nile Ellis, McMaster University

12:30 pm Lunch – Grand Central Ballroom & Main Lobby -

Student Showcase Main Lobby – Participants Tour Showcase – Cast Votes

1:00 pm **Kate Todd**, Actress, Singer, Songwriter

Title: ***"Footprints on the Moon"***

1:30 pm **Christopher S. Langley, Ph.D., P.Eng.**, Senior Engineer, Guidance, Navigation, and Control Robotics and Automation, MDA

Title: ***"The Most Interesting Arm in Space"***

2:00pm **Dr. Michael Plaza, Director, The Frost Study**

Title: ***"Cryoablation: Innovation in the Treatment of Breast Cancer"***

2:30 **Dr. Natalia K. Nikolova**, Professor, Canada Research Chair in High-frequency Electromagnetics, McMaster University

Title: ***"Smart" Radar for Stand-off Security Screening in the Making at Mac***

3:00 pm **Ross Lockwood, Scientist**, Ph.D., Condensed Matter Physics, University of Alberta

Title: ***"Mind Over Mars"***

3:30 pm **Artash Nath & Arushi Nath**, Co-Founders, HotPopRobot

Title: ***"How NextGen can hack their way to Space Exploration, Science and Innovation"***

4:00 pm **Dr. Mehran Anvari, Scientific Director (CSii)**

Showcase Presentation

Closing Remarks