

# ASTech Speakers

## [Allan Chegus](#)

Stream Systems Ltd.

ASTech Awards: <http://db.atech.ca/awardee0/2016-startup-stream-systems-ltd>

Area of Expertise: Emerging Operating Technology / Advanced Simulation

Presentation Topics: 1. Emerging Trends in Operating Technology, Software and Simulation 2. System and Network Thinking 3. Innovation Bridging Several Sectors

Geographic Areas:

Short Bio: I imagine a world where industry is optimized, where large capital projects operate perfectly after they are built; where cross-functional teams collaborate seamlessly because they see each other's point of view; and where assets and industrial systems are fully utilized. In this world, money, energy, time and the environment are saved. I've spent my career in industry, and I know how difficult it is to make optimal decisions in environments with multiple dynamic variables interacting. That's why I've been driven to create software that makes decision making for industry easy.

## [David Manz](#)

Manz Engineering Ltd.

ASTech Awards: <http://db.atech.ca/awardee0/2011-societal-impact-manz-dr-david>

Area of Expertise: Corporate Social Responsibility — Safe Drinking Water

Presentation Topics: 1. Challenges providing water treatment for disadvantaged communities. 2. BioSand Water Filter 3. Commercialization and marketing of water treatment technology.

Geographic Areas: Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat

Short Bio: Because I know how to provide safe drinking water for disadvantaged communities worldwide I am driven to pursue this objective. Because I can do it I must do it. My work matters because the provision of safe drinking water (potable water in general) saves lives and improves lives. There are millions of BioSand water filters (my technology - freely given) being used world wide. It is probable that a thousand or more are being constructed every day - providing improving the lives of several thousand people every day.

## [Dr. Alex Ramirez-Serrano](#)

Founder & President, 4Front Robotics

ASTech Awards: <http://db.atech.ca/awardee0/2014-applied-technology-ramirez-serrano-dr-alex>

Area of Expertise: Applied Technology: Unmanned Aerial Drones and Ground Vehicles

Presentation Topics: Unmanned Aerial Vehicles (Present and Future) Commercial Applications of Drones

Geographic Areas: Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Outside Alberta

Short Bio: Dr. Alex Ramirez-Serrano is a mechanical engineering professor at the University of Calgary and a driving force behind 4Front Robotics. For the past 15 years, his lab at U of C has researched the design and control of unmanned vehicle systems for complex environments. In 2012 Dr. Ramirez-Serrano founded 4Front Robotics, a Canadian UVS company developing fully autonomous highly maneuverable unmanned systems for confined environments applied to civilian commercial use such as mining, oil and gas, search and rescue and urban policing. Environments might include collapsed buildings, urban canyons and beneath tree cover. Dr. Ramirez-Serrano has a strong technical background supported by a Bachelor degree in Mechanical Engineering, two Masters degrees and a Doctoral degree. The work of Dr. Ramirez-Serrano is important because it provides tools to solve problems the current technologies cannot, reduce the cost of performing tasks in complex environments and reduce the time to accomplish the job.

## [Dr. Christian Jacob](#)

University of Calgary

ASTech Awards: <http://db.atech.ca/awardee0/2015-ict-lindsay-virtual-human>

Area of Expertise: Science

Presentation Topics: Body Universes: How computer games change the way we do science A Flight

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Simulator for the Human Body: Replaying the "Fantastic Voyage" How far has computational physiology come?

Geographic Areas: Throughout Alberta

Short Bio: I am passionate about illustrating the fascinating "Body Universes" of human anatomy and physiology with the help of the latest in computer technology. My research team uses 3D virtual reality and augmented reality environments together with computer game engines to build stunning immersive worlds inside and around the human body. One of our key projects is the LINDSAY Virtual Human ([lindsayvirtualhuman.org](http://lindsayvirtualhuman.org)), which we always like to show in action. We work on computational physiology, with aspirations for virtual drug testing and on innovative teaching and learning environments.

## [Dr. Ding-Yu Peng](#)

University of Saskatchewan

ASTech Awards: <http://db.astechn.ca/awardee0/2015-oil-sands-peng-dr-ding-yu>

Area of Expertise: Oil Sands Research

Presentation Topics: Thermodynamics, Energy and Environment Mathematical Modelling of the Behaviour of Petroleum Systems

Geographic Areas: Throughout Alberta, Outside Alberta

Short Bio: My expertise is in the applied thermodynamics. My research is driven by my pursuit of excellence with a view to serve the human kind and conserve the environment. By sharing my knowledge with the researchers in academic and industrial sectors, I have made significant impact on the quality of life through environmental and economical benefits to our society.

## [Dr. Jonathan Curtis](#)

Lipid Chemistry Group, University of Alberta

ASTech Awards: <http://db.astechn.ca/awardee0/2015-applied-technology-lipid-chemistry-group>

Area of Expertise: Science

Geographic Areas: Edmonton area

## [Dr. Mark Boyce](#)

Professor of Ecology and ACA Chair in Fisheries & Wildlife, University of Alberta

ASTech Awards: <http://db.astechn.ca/awardee0/2014-science-boyce-dr-mark>

Area of Expertise: Science

Presentation Topics: Canada's Energy Policy: the Urgent Need for Science Managing Moose by Citizen Science (Moose Survey app) Trophy Hunting in Alberta?

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area, Outside Alberta

Short Bio: I am a wildlife biologist with keen interest in conservation. My research is mostly in Alberta with recent projects on grizzly bears, black bears, wolves, elk, moose and sage grouse.

## [Dr. Mayank Goyal](#)

University of Calgary

ASTech Awards: <http://db.astechn.ca/awardee0/2016-technology-dr-mayank-goyal>

Area of Expertise: Medicine: Acute Stroke

Presentation Topics: 1. Evidence-based Medicine: How it Works 2. Acute Stroke: Recent Advances 3. Changing Acute Stroke: A Journey

Geographic Areas: Calgary area

Short Bio: Dr. Mayank Goyal is a Professor in the Department of Radiology and Clinical Neurosciences at the University of Calgary. He is the Director of Imaging and Endovascular treatment at the Calgary Stroke Program. He is also the Medical Director of the Seaman Family MR Research Centre. Dr. Goyal's passion and main research interest is acute stroke imaging, workflow and intervention. He has over 150 publications in peer-reviewed journals. He is one of the Principal Investigators in two global trials. He is world renowned for his ground-breaking work in efficiency and workflow in acute stroke

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intervention and has travelled extensively to share his expertise. Mayank is also an innovator and always thinking of solutions to problems including the new way of imaging in acute stroke called multiphase CT angiography. This technique became the basis of the PROVE IT study and was implemented globally as part of the ESCAPE study. Initial results and feedback suggest that on average this technique saves 20 minutes in acute stroke treatment. Dr. Goyal is an integral part of changing stroke care across the world, impacting thousands of patients to have a better outcome from this devastating disease.

## [Dr. Michael D. Hill](#)

University of Calgary, Calgary Stroke Team

ASTech Awards: <http://db.atech.ca/awardee0/2015-societal-impact-calgary-stroke-team>

Area of Expertise: Science

Presentation Topics: Stroke Neurology Biomedical Drug Development Advances in Brain Imaging

Geographic Areas: Throughout Alberta, Outside Alberta

Short Bio: Dr. Michael Hill is a Professor for the Departments of Clinical Neurosciences, Community Health Sciences, Medicine and Radiology at the University of Calgary. He is also Director of the Stroke Unit for the Calgary Stroke Program, Alberta Health Services. Dr. Hill's research interests include stroke thrombolysis, stroke epidemiology, and surveillance and clinical trials. He is funded by the Canadian Institutes for Health Research (CIHR) and holds the Heart & Stroke Foundation of Alberta/NWT/Nunavut professorship in Stroke Research. He holds and has held operating and clinical trials grants from the CIHR, Heart & Stroke Foundation of Alberta/NWT/Nunavut and from various industry partners as well as NIH (NINDS). Dr. Hill has also received a number of awards, including the Barnett, The Pessin Award and the ARP merit award and the Performance Recognition award for his role in research and his outstanding publication record.

## [Dr. Randy Mikula](#)

Research Scientist (PhD), Kalium Research

ASTech Awards: <http://db.atech.ca/awardee0/2013-oil-sands-mikula-dr-randy>

Area of Expertise: Oil Sands Research

Presentation Topics: The History and Future of Oil Sands Tailings Management Oil Sands Environmental Challenges

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area

Short Bio: Randy Mikula is the former team leader of the department of Natural Resources research effort on oil sands tailings. Over 30 years in oil sands extraction and tailings research has bred a passion for environmental issues associated with the development of Canada's oil sands resource. The polarization that has developed between environmental and industry interests often leaves the public with misconceptions about the consequences of oil sands development. Dr. Mikula is currently principal scientist at Kalium Research, a new company devoted to responsible development of Canada's oil sands resource, and is uniquely positioned to present an unbiased and non-judgmental view about the state of the industry.

## [Dr. Ryan Lewinson](#)

ASTech Awards: <http://db.atech.ca/awardee0/2016-tomorrow-dr-ryan-lewinson>

Area of Expertise: Science

Presentation Topics: 1. Medical Science, Technology and Innovation 2. Health 3. Career and professional Development

Geographic Areas: Calgary area

Short Bio: Ryan completed his PhD in biomedical engineering and studied the musculoskeletal biomechanics of footwear, movement and injury. He is currently a medical student and a Director at glacierRx where he provides research consulting. He has authored numerous research articles and is heavily involved in the academic community. he is motivated by innovation and developing new technology.

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## [Dr. Shawna Pandya](#)

Alberta Health Services / University of Alberta

ASTech Awards: <http://db.astechn.ca/awardee0/2009-tomorrow-ms-shawna-pandya>

Area of Expertise: Innovation, Big Ideas and the Future

Presentation Topics: Innovation Technology and the Future of Medicine Turning Ideas into Reality

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area, Outside Alberta

Short Bio: Hang out in 0g? Check. Work at NASA? Check. Perform brain surgery? Check. Pilot a plane? Check. Found a company based on a challenge to positively impact 1 billion people? Check., and check. For Dr. Shawna Pandya, life has just been one adventure after another, and she is just getting started. Armed with backgrounds in neuroscience, space, entrepreneurship and medicine, Dr. Pandya has led a life devoted to technology, innovation, social development and of course, adventure!

## [Dr. Steven Tannas](#)

Tannas Conservation Services Ltd.

ASTech Awards: <http://db.astechn.ca/awardee0/2015-environment-tannas-conservation-services>

Area of Expertise: Environment

Presentation Topics: Restoration Ecology: Restoring Natural Ecosystems after Industrial Development in Western Canada Rangeland Management: The Art of Science of Integrating Ranching with Ecosystem Management Soil Bioengineering: Bank Stabilization of Prairie Water Courses

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Outside Alberta

Short Bio: I have been conducting environmental assessments since the late 1990's and has specialized in plant identification and managing native plant communities. I have an integrated academic training in vegetation, wetlands, soils, rangeland management, reclamation, mapping, and ecosystem management. With hundreds of thousands of hectares of land surveyed, I have been able to help preserve numerous natural ecosystems across western Canada and pioneer new methods to restore these ecosystems. Innovation is one of the driving forces behind all of my work whether regarding developing new restoration techniques, new assessment methods, or new propagation methods for native plants. In addition to my work as an environmental consultant, I have been able to contribute to training a new generation of environmental scientists through teaching and working with an academic institution. My work has led to new methods of plan community restoration, and new methods of assessing ecosystem health for Parks Canada and two successful businesses.

## [Dr. Todd Lowary \(Not available until 2017\)](#)

University of Alberta

ASTech Awards: <http://db.astechn.ca/awardee0/finalist-lowary-dr-todd>

Area of Expertise: Science

Presentation Topics: The Role of Carbohydrates in Infectious Diseases Building a National Research Network

Geographic Areas: Calgary area, Edmonton area

Short Bio: My research involves using chemistry combined with biochemical/biological investigations to understand how carbohydrates are involved in the development of infectious (largely bacterial) diseases. The basic science research we do has impact on the development of novel therapeutic agents to treat infectious disease, new diagnostics and vaccines. Outside of my own research, I am the Scientific Director of the Canadian Glycomics Network (GlycoNet). This Networks of Centres of Excellence-funded Network is focused on developing novel solutions to unmet medical needs through exploiting the role that carbohydrates play in biology.

## [Dr. Zhangxing \(John\) Chen](#)

Professor, NSERC/AIEES/Foundation CMG & AITF Chairs, University of Calgary

ASTech Awards: <http://db.astechn.ca/awardee0/2012-technology-chen-dr-zhangxing-john>, <http://db.astechn.ca/awardee0/2010-science-chen-dr-zhangxing-john>

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Area of Expertise: Applied Technology

Presentation Topics: Studies of Hybrid Steam-Solvent Processes for Oil Recovery Studies of Unconventional Oil and Gas Reservoirs Modelling and Simulation of Unconventional Oil and Gas Reservoirs

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area, Outside Alberta

Short Bio: Dr. Chen has made a career of shaking up the modern oil and gas industry with his innovative concepts, particularly in petroleum reservoir engineering and simulation. His inventions – and his acumen in commercializing them – are dramatically improving efficiencies in oil and gas recovery processes. Dr. Chen is a Professor in the Department of Chemical and Petroleum Engineering at the University of Calgary and holds two research Chair awards: the NSERC/AIEES (AERI)/Foundation CMG Senior Research Chair in Reservoir Simulation and the AITF Industrial Chair in Reservoir Modelling. He is the most advanced researcher in reservoir modelling and simulation in Canada and is a global leader in the field. He was recognized by Oilsands Review (February 2009) as one of the three most prominent researchers in reservoir simulation in the world. Dr. Chen is building fundamental theories about enhancing oil and gas recovery, both economically and environmentally, and developing innovative models and algorithms to enhance understanding of the physics and chemistry of reservoirs. The state-of-the-art reservoir simulation toolkits Dr. Chen has created allow for multiple parallel runs, faster computation, and rigorous optimization. The novel techniques he has developed are faster and have greater accuracy than what had been available. His great advancements in simulation have improved workflow including risk and uncertainty analysis and, in turn, have provided significant savings in capital costs for all of the involved Alberta oil companies. Dr. Chen has published 353 peer-reviewed manuscripts, written five acclaimed textbooks and edited seven high-quality popular books. His research has been extremely well received and employed not only by his peers in academia but also by industry. His work has been cited over 4,000 times by others. Dr. Chen has received 30 prestigious awards and honours.

## Glen Kathler

Applied Research and Innovation Services, SAIT Polytechnic

ASTech Awards: <http://db.atech.ca/awardee0/2015-agriculture-kathler-mr-glen>,

<http://db.atech.ca/awardee0/2014-agriculture-kathler-mr-glen>

Area of Expertise: Applied Technology

Presentation Topics: Applied Research RFID systems development and testing UAVs, Intelligent Sensor Networks, innovation, disruptive technologies

Geographic Areas: Throughout Alberta, Outside Alberta

Short Bio: I am a passionate educator - both on campus and off. After 11 years as an instructor at SAIT Polytechnic, I joined the Applied Research and Innovation Services department as a full-time researcher. Since 2008, my team has explored the application of RFID technologies across a range of industries: livestock tracking, inventory management, oil-and-gas and beyond. Along the way, we've honed our expertise; helped companies design, develop, prototype and test their new technologies; and had some fantastic adventures - in the lab and in the field. An avid story-teller, I love speaking to groups on applied research, RFID systems development and testing, UAVs, Intelligent Sensor Networks, innovation, disruptive technologies - and am known for finding a sports analogy to bring things to life.

## Guy Hummel

CEO, Hatsize Learning Corp.

ASTech Awards: <http://db.atech.ca/awardee0/2012-ict-hatsize-learning-corporation>

Area of Expertise: Start-Up/Entrepreneurship

Presentation Topics: Building a Technology Company Selling Technology to Customers in the U.S.

Geographic Areas: Calgary area

Short Bio: Guy Hummel believes that the best way to learn is by doing. He founded Hatsize Learning Corporation in 2000 to bring hands-on learning to online IT training and he continues to lead the company as its CEO. Hatsize's customers are primarily large US software companies. Guy is also the winner of the MERLOT Award for Exemplary Online Learning Resources for his Linux Survival website,

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a free tutorial that helps people learn Linux through guided practice.

## [James Freeman](#)

CTO, Zedi Inc.

ASTech Awards: <http://db.atech.ca/awardee0/2014-commercial-zedi-inc>

Area of Expertise: Commercial Achievement

Presentation Topics: Building an Internet of Things Platform Innovation and the Upstream Conventional Oil & Gas Production Operations Market

Geographic Areas: Calgary area, Edmonton area

Short Bio: James oversees all market-facing development of Zedi's technology-enabled solutions. Zedi has developed a cloud-based platform that ties together sensors, intelligent field instrumentation, M2M and web-based applications to allow customers to manage remote production operations and make better business decisions.

## [Jerry Hanna](#)

CEO, Clearflow Enviro Systems Group Inc.

ASTech Awards: <http://db.atech.ca/awardee0/2013-environment-clearflow-enviro-systems-group-inc>

Area of Expertise: Environment

Presentation Topics: Water Management Erosion Control Effects of Sediment on the Environment

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area

Short Bio: I am driven by challenge. Finding the right answer to difficult issues in regards to water and the environment. Our work matters because water is a global issue. If we have the ability to produce a recyclable water for industry and reduce demand on the potable water we will then have more water for people to drink, less demand on source water from creeks, rivers, lakes, etc. and a much safer environmental footprint for industry.

## [Jessica Luc](#)

ASTech Awards: <http://db.atech.ca/awardee0/2016-tomorrow-jessica-luc>

Area of Expertise: Science

Presentation Topics: 1. Innovation and Science: The Life Behind Research on Ex Vivo Organ Perfusion and Artificial Hearts 2. Medical Education and Mentorship: The Importance of Investing in the Future Generation 3. Success, Failures and Staying Human: The Secret to Happiness

Geographic Areas: Edmonton area

Short Bio: Jessica is a third year medical student at the University of Alberta with a passion for research, the improvement of quality healthcare mixed with an interest in humanism in medical education. Jessica has conducted research in three different fields and published in science, translational, clinical and education research. Her research collaborators include the Mayo Clinic, University of Texas MD Anderson Cancer Centre, University of Sydney and The Collaborative Research Group. Jessica was named a Top 30 Under 30 in Alberta and was awarded full tuition scholarships. She hosts the Humanism in Medicine Film Festival, established a temporary boutique for homeless youth and hosted a Fashion Show for All Sizes to bring awareness to the prevention of eating disorders.

## [Jim Bush](#)

Evolution Engineering Inc.

ASTech Awards: <http://db.atech.ca/awardee0/2016-applied-technology-evolution-engineering-inc>

Area of Expertise: Start-Up/Entrepreneurship

Presentation Topics: 1. Starting a Business from Your Ideas 2. Simple Rules for a New Technology Start Up 3. Technology Commercialization and Marketing Strategy

Geographic Areas: Throughout Alberta

Short Bio: I take a team based approach to solving problems in industry, surrounding the group with diversity in personality and skill sets. Changing industry for the better drives me, in areas of socio

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impact, economic impact and efficiency. Over the past 10 years, I have played roles in building businesses and achieved good success. I was COO of Extreme Engineering, which sold to Schlumberger and was an enormous success.

## [Jonathan Neufeld](#)

Director, Commercialization Programs, TECTERRA

ASTech Awards: <http://db.atech.ca/awardee0/2014-community-tecterra-inc>

Area of Expertise: Start-Up/Entrepreneurship

Presentation Topics: Technology, Innovation and Commercialization Trends in Geomatics The TECTERRA Model of Innovation Support

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area

Short Bio: Jonathan Neufeld joined TECTERRA in 2011 to create a world-leading geomatics lab facility and training program. As a result, the geomatics lab has been able to assist hundreds of companies across Canada to test and develop new technology. As Director of Commercialization Programs he provides direction and leadership in the definition, execution and management of TECTERRA's investment and funding programs. He holds a B.Sc and an MBA. He is the father of three small children and an avid hiker, climber and cyclist. He is passionate about where technology will take us into the future.

## [Michael Sikorsky](#)

Robots and Pencils

ASTech Awards: <http://db.atech.ca/awardee0/2015-commercial-robots-and-pencils-inc>

Area of Expertise: Technology

Presentation Topics: Myths in the Mobile Enterprise The Future is Here: What You Need to Know About the Coming Era of Anticipatory Apps and Talking Robots

Geographic Areas: Calgary area, Edmonton area, Outside Alberta

Short Bio: Michael is the CEO and co-founder of Robots and Pencils. With 15 years of experience creating software and a deep understanding of the mobile industry, he is a recognized leader, innovator and strategic thinker in the mobile tech space. Michael leads a team of triple-A developers and designers (robots and pencils, respectively) who have been created over 250 apps used by 77 million people worldwide. Founded in 2009 with the vision that mobile will be more transformative than the Internet, the team has built a reputation for creating top-ranking consumer apps, transformative enterprise apps and world-first learning platforms. With a growth rate of 4971 % over five years, Robots and Pencils was named the 34th fastest growing technology company in North America by Deloitte.

## [Remi Schmaltz](#)

CEO and Co-FOunder, Decisive Farming

ASTech Awards: <http://db.atech.ca/awardee0/2014-agriculture-decisive-farming>

Area of Expertise: Agriculture

Presentation Topics: Precision Agriculture Big Data on the Farm Starting a High Growth Business in Alberta

Geographic Areas: Throughout Alberta, Calgary area, Edmonton area, Red Deer area, Southeast, including Lethbridge and Medicine Hat, Northwest, Grande Prairie and area, Northeast, Fort McMurray and area

Short Bio: A dynamic Ag-Business leader with a true entrepreneurial passion. He has a love of agriculture, technology, sales and marketing. When it comes to knowing the agriculture industry and its history he has a proven track record of success. In 2006, Remi and his brother took over the family Ag-retail (Dynagra) and starting incubating the next technologies in farming. Those services grew to the point that in 2011; they bought the division from the family and launched Decisive Farming. Then in 2012 they sold the family business (DynAgra) to a fortune 500 company, CHS Inc. The Schmaltz Family has been involved in Ag Business for over 100 years and 4 generations; always leading agriculture to the next level of efficiency and profitability. It all started with the Schmaltz's farming in the late 1800's in the Beiseker area (Alberta). The farm soon evolved into selling short line farm equipment

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and then Remi's great grand father expanded into a Ford and Massey Harrison farm equipment dealership called Beiseker Motors. Remi's, grand father Felix joined Beiseker Motors and soon found the next innovation on the farm; fertilizer. That side business grew quickly and Felix soon opened Beiseker Agri Services, an Ag-Retail. In the 70's, Remi's father Bruce took over the business and expanded it to 4 locations. Leading to where we are today- leading the charge once again with AgTech.

## [Tyler Hrynyk](#)

AlbertaSat, University of Alberta

ASTech Awards: <http://db.atech.ca/awardee0/2016-special-albertasat>

Area of Expertise: Applied Technology

Presentation Topics: 1. Alberta's First Satellite: Ex-Alta 1 2. Alberta's Second Satellite: Ex-Alta 2 3.

AlbertaSat's Educational Outreach Program

Geographic Areas: Throughout Alberta

Short Bio: The AlbertaSat team is driven by a tenacity to explore space through the use of Cube Satellites. Our work matters because we are developing new technology at the University of Alberta while also giving undergraduate students opportunities to be involved in a space project that they otherwise wouldn't have. The long term impact of our work will hopefully be creating a space industry in Alberta, creating a spacecraft engineering and science program at all education levels.

## [Yonathan Dattner](#)

Luxmux Technology Corporation

ASTech Awards: <http://db.atech.ca/awardee0/2015-startup-luxmux>

Area of Expertise: Start-Up/Entrepreneurship

Presentation Topics: Starting a Technology Start-up in Alberta Silicon Nano-photonics, Technology and Application How to Leverage Gov't Support from R&D to Commercialization

Geographic Areas: Throughout Alberta

Short Bio: Throughout Yonathan's career, he has worked closely with academia, industrial partners and government to introduce new technologies into the market. As founder and President of Luxmux Technology Corporation, Yonathan has raised over \$6 million in capital for the purpose of commercializing Luxmux's new spectrometer technology. He has negotiated and secured capital from private, industrial and multiple government sources such as Nonobridge, IRAP, SDTC, AITF and more. During Yonathan's tenure at the Integrated Sensors, Intelligent Systems Lab (ISIS) at the University of Calgary, he has published a number of peer-reviewed journal papers and patents in the field of CMOS Image Sensors and Silicon nanophotonics. He received the Queen Elizabeth II Award and the Alexander Graham Bell Canada Award through the National Science and Engineering Council of Canada. Yonathan Dattner received his B.Sc in Electrical Engineering from Technion - Institute of Technology, his M.Sc at the University of Calgary and was an external student at the University of British Columbia's Microsystems and Nanotechnology Group. Yonathan is a professional member of the Association of Professional Engineers and Geoscientists of Alberta.