



Hosted By  
**acamp**  
ALBERTA CENTRE FOR ADVANCED WINE PRODUCTS

conference

# Wave 2013

Taking Investable Technology Products to Market

## Conference Guide

**May 5 - 8, 2013**

The Fairmont Chateau Lake Louise | Lake Louise, Alberta, Canada

# Dear Attendees,

Thank-you for participating in the Wave 2013 conference.

It's 2013 and many parts of the economy have been in a malaise for over 10 years. As you are aware, technology by itself does not solve economic problems however, market opportunities with real world applications enable entrepreneurs to pull investable technology into solving real world problems.

By coming to Wave 2013, you have already taken the first step toward expanding your business. This is a unique opportunity to network with other executives from around the globe while listening to executive industry keynotes talk about their markets, issues and technology solutions, and connecting you to a wide range of other markets and applications. One-on-one discussions with keynotes and attendees provide new opportunities to leverage your present direction, financing, manufacturing and channels.

## Market opportunities include:

**Health Care:** fewer doctors and nurses for more patients, the aging population, increasing health care costs, for-profit health care provides less coverage to fewer people, antibiotic resistant bacteria, treatments for cancer, early detection of diseases, and more.

**Conventional Energy:** reducing cost of exploration and production, eliminating pollution into water sheds, aquifers and tailings ponds, corrosion on aging pipe lines, excess CO2 emissions, exploration in harsh environments, deep wells, high temperature, high pressure, locating new reserves, and more.

**Cleantech:** resolving manufacturing pollution, high fuel costs, dependence on fossil fuel, reducing weight while maintaining strength of new materials, recycling to improve the environment, alternative non-polluting fuel sources, using waste materials for fuel, and more.

**Agriculture & Forestry:** food safety, early detection of disease in plants and animals, reducing production costs, regulations on livestock tracking and processing, climate change and plant growth, increased efficiency of land use, value-added forestry products, and more.

**Consumer/Commercial:** reducing cost in lighting, energy efficient construction, improving vehicle safety, even more interactive entertainment systems, new low cost electronics, and more.

**Nanonuclear:** saving lives using radioactive isotopes in the diagnosis and treatment of disease, sterilizing medical products and food, safe and efficient power generation, fast detection and sensing for security, and more.

It's up to you to create and leverage opportunities for your business. We will provide a forum... use this opportunity to network and grow. Let me know how I can help

Sincerely

Ken Brizel,  
CEO, ACAMP

# Table of Contents

<b>Map of Facility</b>	<b>2</b>
<b>Map of Conference</b>	<b>3</b>
<b>Attendee Information</b>	<b>4 - 5</b>
Conference and one-on-one meeting desk	4
Special events	5
Sunday, May 5, 2013	5
Monday, May 6, 2013	6 - 7
Tuesday, May 7, 2013	8 - 9
Wednesday, May 8, 2013	10
<b>Opening Speaker</b>	<b>10</b>
<b>Keynote Speakers</b>	<b>11 - 14</b>
<b>Special Guests</b>	<b>14 - 15</b>
<b>Exhibitor Listing</b>	<b>16 - 19</b>
<b>Notes</b>	<b>20</b>
<b>Sponsors and Supporters</b>	<b>21</b>

## Note

Registration and bookings for one-on-one meetings are arranged at the Conference Desk.  
Seating in Pavilions is first come first served on conference site.

# Map of Facility

## MAIN LOBBY LEVEL

Main Reception  
Bell Desk  
Concierge Desk  
Ski Valet  
Fairview Dining Room  
Alpine Room  
Walliser Stube Wine Bar  
Chateau Deli  
Lakeview Lounge  
Children's Playroom  
The Guides Cabin  
Shops

## UPPER LOBBY LEVEL

Larch Lounge  
Pipestone Room

## FIRST FLOOR

Victoria Room  
Pool and Fitness Centre  
Louise Meeting Room  
Agnes Meeting Room  
Lefroy Meeting Room

## LOWER LOBBY LEVEL

Escape Spa and Salon  
Glacier Saloon  
Poppy Brasserie  
Shops  
Access to Lake



- Hotel Registration
- Conference Registration
- Mount Temple Wing  
(pavilions and lunch)
- Lounge
- Shops
- Victoria Ballroom  
(breakfast, dinner and plenary sessions)

# Map of Conference - Mount Temple Wing

## Meeting Rooms

- Lower floor - Trail A - Meeting rooms
- Lower floor - Trail B
- Lower floor - Trail C - Roundtable discussions
- Lower floor - Trail D - Roundtable discussions
- Third floor - Parker - One-on-one meeting rooms
- Third floor - Mollison - One-on-one meeting rooms

## Conference Rooms

- Lago Italian Restaurant - Lunch
- Mount Temple Ballroom - Pavilions
- Heritage Hall - Sponsor area



# Attendee Information

## CONFERENCE AND ONE-ON-ONE MEETING DESK

The WAVE 2013 Conference Desk will be located in the main lobby of the Chateau Lake Louise.

Hours are as follows: \*

Sunday May 5	3:00 pm – 7:30 pm
Monday May 6	7:30 am – 4:30 pm (after 12 noon the desk will be located in the Heritage Hall Foyer)
Tuesday May 7	11:30 am – 4:30 pm
Wednesday May 8	10:30 am – 1:00 pm

Name badges were given to you at registration – You are required to wear this badge at all times in order to gain admittance to all conference sessions and events. With your badges you received one complimentary beverage ticket for each reception; please keep these safe as they will not be replaced. Cash Bar will be available.

### Your conference registration package includes:

Admittance to all sessions & exhibits

Breakfast Monday, Tuesday & Wednesday

Lunch Monday, Tuesday & Wednesday

Dinner Sunday, Monday & Tuesday

Seating for all meals is on a first come first served basis.

Networking and Reception - one complimentary beverage ticket for each reception and Cash Bar available

### If you purchased a conference “partner pass” this pass includes:

Breakfast\*\* Monday, Tuesday & Wednesday

Lunch\*\* Monday, Tuesday & Wednesday

Dinner\*\* Sunday, Monday & Tuesday

## CONFERENCE GUIDE BOOK

This book is your resource for the duration of the conference. Please keep with you for a reference guide. In the back of the guide some paper has been provided for notes.

## CONFERENCE ATTIRE

Dress for the conference is Business including dinners. When venturing outside please be sure to wear flat comfortable shoes and bring an extra layer of clothing.

## SPONSORS

Sponsor exhibits will be at the pavilion entrance called the Heritage Hall.

\*subject to change

\*\*restricted to meals only



# Attendee Information

## SPECIAL EVENTS

**Sunday morning - Skiing at Lake Louise** \*weather permitting

Gather at 8:00 am in the lobby to ski or ride at the world famous Lake Louise ski resort.

**Sunday 4:00 - 5:00 pm - Solar Car Demonstration, Lakeside**

Gather by the Chateau Lake to view the University of Calgary's Solar Car demonstration.

**Sunday Dinner - Alberta BBQ and SUDS Band**

Dinner will be in the Victoria Ballroom where you will be able to enjoy a breathtaking view of Lake Louise. One complimentary beverage ticket is included in your name badge. Attire is BBQ Casual.

Dinner will feature music provided by the SUDS Band!

For many years, Larry Olsen and Gary Beatty had been busily carving out their own solo music careers in Western Canada. In 1982, they formed a partnership and called it 'SUDS'. These guys will blow your doors off! They can play everything from Mick Jagger to Johnny Cash...and do it well!

**Monday and Tuesday Reception - Deborah Nyack the Harp Angel**

Before Monday and Tuesday's evening meals, Deborah will bring you the best in harp music.

## Conference Detail Guide: **Sunday, May 5, 2013**

TIME	DESCRIPTION	LOCATION
2:00-4:00 pm	Exhibitor access to set up booths in pavilions	Mount Temple Ballroom
3:00 pm+	Hotel Check In Available	
3:00-7:30 pm	Conference Registration (Registration will be open during entire conference)	Hotel Lobby
4:00-5:00 pm	University of Calgary's Solar Car Demonstration	Lakeside
4:00-5:00 pm	Reception Reception sponsored by Singleton Urquhart LLP	outside Victoria Ballroom
4:00-6:30 pm	Music: SUDS Band	
5:00-6:30 pm	Welcome BBQ	Victoria Ballroom
6:30-8:30 pm	Plenary Session Opening Presentations	
6:30-6:45 pm	Mr Ken Brizel - Welcome and Introductory Remarks CEO ACAMP	
6:45-7:00 pm	Honourable Thomas A Lukaszuk - Opening Address Alberta Deputy Premier & Minister of Enterprise and Advanced Education	Victoria Ballroom
7:00-7:45 pm	Mr Chris Hartshorn - Market Mega Trends and Opportunities Chief Research Officer at Lux Research	
7:45-8:30 pm	Dr Steven Griffiths - Masdar Institute Executive Director of Institute Initiatives	

# Conference Detail Guide: Monday, May 6, 2013

TIME	DESCRIPTION			LOCATION
7:15-8:30 am	Breakfast			Victoria Ballroom
7:30-12:00 noon	Conference Desk Opens			Hotel Main Lobby
8:30-11:30 am	Plenary Sessions			
8:30-8:45 am	Welcome and Introductory Remarks			
8:45-9:30 am	Dr Sergio Kapusta - Shell Chief Scientist			
9:30-10:15 am	Dr Alexei A Andreev - Harris & Harris Executive VP & Managing Director			Victoria Ballroom
10:15-10:45 am	Refreshment break			
10:45-11:30 am	Mr Travis Earles - Lockheed Martin Executive Corporate Engineering and Technology			
11:30-11:45 am	Browse Exhibits			Pavilions A, B, C & Heritage Hall
11:45-1:00 pm	Lunch			Lago Italian Restaurant
12:00-4:30 pm	Conference Desk Continues			Heritage Hall Foyer
1:00-4:15 pm	Exhibitor Presentation Schedule			Mount Temple Ballroom
	Pavilion A	Pavilion B	Pavilion C	
	Conventional Energy & Cleantech	Health / Medical & Nanonuclear	Consumer/Commercial & Agriculture/Forestry	
1:00-1:15 pm	FireWater Fuel	PBR Laboratories	AirJuice Corp	
1:15-1:30 pm	Spinduction Weld	Canadian Light Source	Enigma Interconnect	
1:30-1:45 pm	Zedi	ANMS	Panvion	
1:45-2:00 pm	Wave Control	Innovative Trauma Care	ATLOC	
2:00-2:15 pm	Argonide	Quantum Silicon	Tekna Plasma Systems	
2:15-2:30 pm	Luxmux	Advanced Diamond Tech	Preciseley Microtechnology	



# Conference Detail Guide: Monday, May 6, 2013

TIME	DESCRIPTION	LOCATION																											
1:00-4:15 pm	Exhibitor Presentation Schedule Continued	Mount Temple Ballroom																											
	<table border="1"> <thead> <tr> <th>Pavilion A</th> <th>Pavilion B</th> <th>Pavilion C</th> </tr> </thead> <tbody> <tr> <td>Conventional Energy &amp; Cleantech</td> <td>Health / Medical &amp; Nanonuclear</td> <td>Consumer/Commercial &amp; Agriculture/Forestry</td> </tr> <tr> <td>2:30-2:45 pm Murandi Communications</td> <td>LogiCan</td> <td>GrowSafe</td> </tr> <tr> <td>2:45-3:00 pm Hydro Processing</td> <td>Shield Diagnostics</td> <td>Aquila Diagnostic</td> </tr> <tr> <td>3:00-3:15 pm Murrenhil</td> <td>Applied Nanotools</td> <td>MiTAB</td> </tr> <tr> <td>3:15-3:30 pm Boreal Laser</td> <td>Guard RFID Solutions</td> <td>TransEON</td> </tr> <tr> <td>3:30-3:45 pm One Eye Industries</td> <td>Cealtec</td> <td>Animal Deterrent Systems</td> </tr> <tr> <td>3:45-4:00 pm</td> <td>Nanalysis</td> <td>4iiii Innovations</td> </tr> <tr> <td>4:00-4:15 pm</td> <td>ASSESSx Technology</td> <td>Tektronix</td> </tr> </tbody> </table>	Pavilion A	Pavilion B	Pavilion C	Conventional Energy & Cleantech	Health / Medical & Nanonuclear	Consumer/Commercial & Agriculture/Forestry	2:30-2:45 pm Murandi Communications	LogiCan	GrowSafe	2:45-3:00 pm Hydro Processing	Shield Diagnostics	Aquila Diagnostic	3:00-3:15 pm Murrenhil	Applied Nanotools	MiTAB	3:15-3:30 pm Boreal Laser	Guard RFID Solutions	TransEON	3:30-3:45 pm One Eye Industries	Cealtec	Animal Deterrent Systems	3:45-4:00 pm	Nanalysis	4iiii Innovations	4:00-4:15 pm	ASSESSx Technology	Tektronix	
Pavilion A	Pavilion B	Pavilion C																											
Conventional Energy & Cleantech	Health / Medical & Nanonuclear	Consumer/Commercial & Agriculture/Forestry																											
2:30-2:45 pm Murandi Communications	LogiCan	GrowSafe																											
2:45-3:00 pm Hydro Processing	Shield Diagnostics	Aquila Diagnostic																											
3:00-3:15 pm Murrenhil	Applied Nanotools	MiTAB																											
3:15-3:30 pm Boreal Laser	Guard RFID Solutions	TransEON																											
3:30-3:45 pm One Eye Industries	Cealtec	Animal Deterrent Systems																											
3:45-4:00 pm	Nanalysis	4iiii Innovations																											
4:00-4:15 pm	ASSESSx Technology	Tektronix																											
3:00-4:00 pm	Refreshments Available	Heritage Hall Foyer																											
4:45-6:30 pm	Plenary Sessions																												
4:45-5:00 pm	Introductory Remarks																												
5:00-5:45 pm	Mr Stephen Graham - Maple Leaf Foods Chief Marketing Officer	Victoria Ballroom																											
5:45-6:30 pm	Dr Shuichiro Ogawa - Asahi Kasei Corporation R&D Group, Advance Energy Materials Development Center																												
6:30-7:00 pm	Attendees Break, Networking and Reception (Please take this opportunity to take any items back to your hotel room)  Music by Deborah Nyack the Harp Angel	outside Victoria Ballroom																											
7:00 pm	Dinner and Networking	Victoria Ballroom																											

# Conference Detail Guide: Tuesday, May 7, 2013

TIME	DESCRIPTION			LOCATION
7:15-8:30 am	Breakfast			Victoria Ballroom
8:30-11:30 am	Plenary Sessions			
8:30-8:45 am	Welcome and Introductory Remarks			
8:45-9:30 am	Dr Waguih Ishak - Corning Division Vice President			
9:30-10:15 am	Mr Martin Bloom - Renesola and Intelligent Energy Board Chairman			Victoria Ballroom
10:15-10:45 am	Refreshment break			
10:45-11:30 am	Dr Helen Greiner - CyPhy Works Founder and CEO			
11:30-11:45 am	Browse Exhibits			Pavilions A, B, C & Heritage Hall
11:30-4:30 pm	Conference Desk Opens			Heritage Hall Foyer
11:45-1:00 pm	Lunch			Lago Italian Restaurant
1:00-4:15 pm	Exhibitor Presentation Schedule			Mount Temple Ballroom
	Pavilion A	Pavilion B	Pavilion C	
	Conventional Energy & Cleantech	Health / Medical & Nanonuclear	Consumer/Commercial & Agriculture/Forestry	
1:00-1:15 pm	Sky Hunter	XploSafe LLC		
1:15-1:30 pm	Syngar	Medical Radiotracers	MRF Geosystems	
1:30-1:45 pm	MicroPilot	Redlen	Baseband	
1:45-2:00 pm	Micalylyne	SmileSonica	Nemsor	
2:00-2:15 pm	Absolute Combustion	Metabolomic Technologies	Stream Technologies	
2:15-2:30 pm	Grafoid	ChemRoutes	Viewtrak	

# Conference Detail Guide: Tuesday, May 7, 2013

TIME	DESCRIPTION	LOCATION																												
1:00-4:15 pm	Exhibitor Presentation Schedule Continued	Mount Temple Ballroom																												
	<table border="1"> <thead> <tr> <th>Pavilion A</th> <th>Pavilion B</th> <th>Pavilion C</th> </tr> </thead> <tbody> <tr> <td>Conventional Energy &amp; Cleantech</td> <td>Health / Medical &amp; Nanonuclear</td> <td>Consumer/Commercial &amp; Agriculture/Forestry</td> </tr> <tr> <td>2:30-2:45 pm</td> <td>Wilson Analytical</td> <td>Tangent</td> <td>HIECO</td> </tr> <tr> <td>2:45-3:00 pm</td> <td>Norcada</td> <td>Prev Biotech</td> <td>Ideal Aerosmith</td> </tr> <tr> <td>3:00-3:15 pm</td> <td>ANSYS</td> <td rowspan="4">Steve Winston Roundtable - Isotope Production Alternatives</td> <td rowspan="4">John Webb Roundtable - Technology in Agriculture</td> </tr> <tr> <td>3:15-3:30 pm</td> <td>Steeper Energy</td> </tr> <tr> <td>3:30-3:45 pm</td> <td>Dynamic Source Manufacturing</td> </tr> <tr> <td>3:45-4:00 pm</td> <td>Clearflow Enviro Systems</td> </tr> <tr> <td>4:00-4:15 pm</td> <td>Russell NDE</td> <td></td> <td></td> </tr> </tbody> </table>	Pavilion A	Pavilion B	Pavilion C	Conventional Energy & Cleantech	Health / Medical & Nanonuclear	Consumer/Commercial & Agriculture/Forestry	2:30-2:45 pm	Wilson Analytical	Tangent	HIECO	2:45-3:00 pm	Norcada	Prev Biotech	Ideal Aerosmith	3:00-3:15 pm	ANSYS	Steve Winston Roundtable - Isotope Production Alternatives	John Webb Roundtable - Technology in Agriculture	3:15-3:30 pm	Steeper Energy	3:30-3:45 pm	Dynamic Source Manufacturing	3:45-4:00 pm	Clearflow Enviro Systems	4:00-4:15 pm	Russell NDE			
Pavilion A	Pavilion B	Pavilion C																												
Conventional Energy & Cleantech	Health / Medical & Nanonuclear	Consumer/Commercial & Agriculture/Forestry																												
2:30-2:45 pm	Wilson Analytical	Tangent	HIECO																											
2:45-3:00 pm	Norcada	Prev Biotech	Ideal Aerosmith																											
3:00-3:15 pm	ANSYS	Steve Winston Roundtable - Isotope Production Alternatives	John Webb Roundtable - Technology in Agriculture																											
3:15-3:30 pm	Steeper Energy																													
3:30-3:45 pm	Dynamic Source Manufacturing																													
3:45-4:00 pm	Clearflow Enviro Systems																													
4:00-4:15 pm	Russell NDE																													
3:00-4:00 pm	Refreshments Available	Heritage Hall Foyer																												
3:00-4:00 pm	<b>ROUNDTABLE DISCUSSIONS</b> Steven Winston - Isotope Production Alternatives John Webb - Technology in Agriculture	Mount Temple Ballroom Pavilion B Pavilion C																												
4:45-6:30 pm	Plenary Sessions																													
4:45-5:00 pm	Introductory Remarks																													
5:00-5:45 pm	Dr Harrison Dillon - Solazyme President, CTO and co-founder	Victoria Ballroom																												
5:45-6:30 pm	Dr Claus Schmidt - Robert Bosch Venture Capital Managing Director																													
6:30-7:00 pm	<b>Attendees Break, Networking and Reception</b> (Please take this opportunity to take any items back to your hotel room)  Music by Deborah Nyack the Harp Angel	outside Victoria Ballroom																												
7:00 pm	Dinner and Networking  Evaluation forms will be distributed	Victoria Ballroom																												

# Conference Detail Guide: **Wednesday, May 8, 2013**

TIME	DESCRIPTION	LOCATION
7:15-8:30 am	Breakfast	Victoria Ballroom
8:30-10:15 am	Closing Plenary Sessions	
<i>8:30-8:45 am</i>	Introductory Remarks	
<i>8:45-9:30 am</i>	Dr John Parmentola - General Atomics Senior VP Energy and Advanced Concepts	Victoria Ballroom
<i>9:30-10:15 am</i>	Dr Darrel Untereker - Medtronic VP Corporate Research and Technology	
<i>10:15-10:30 am</i>	Mr Ken Brizel - Closing Remarks CEO ACAMP	
10:30-11:00 am	Refreshments Available	Heritage Hall Foyer
10:30-1:00 pm	Conference Desk Opens	Heritage Hall Foyer
10:45-1:00 pm	Browse Exhibits	Mount Temple Ballroom
11:00-1:00 pm	TECHNOLOGY SUMMIT ROUNDTABLE DISCUSSION	
	Chaired by Mr Chris Hartshorn Chief Research Officer at Lux Research	Trail Rooms C & D
11:45-1:00 pm	Lunch	Heritage Hall and Trail Rooms C & D
1:00 pm	Conference Ends	

## Opening Speaker



### **Honourable Thomas A Lukaszuk**

**Alberta Deputy Premier & Minister of Enterprise and Advanced Education**

Deputy Premier Lukaszuk is also the executive vice-chair of the Alberta Economic Development Authority and Ministerial Liaison to the Canadian Forces. He serves as chair of the government's Operations and Policy Cabinet Committee and the Public Sector Resources Committee.

# Keynote Speakers



## Mr Chris Hartshorn

**Chief Research Officer at Lux Research**

Chris leads Lux Research's teams of industry analysts and consultants in providing on-going emerging technology intelligence and strategic advice for the world's leading technology companies. Chris draws on extensive experience advising clients on a range of emerging technology areas including green buildings, water efficiency, energy storage, biofuels, advanced materials and photovoltaics and waste.



## Dr Steven Griffiths

**Executive Director of Institute Initiatives and Professor of Practice at the Masdar Institute of Science and Technology.**

The Emirates have invested heavily in new technologies and Steven will discuss areas of technology commercialization, including Semiconductor, Aerospace, Health Care, Mining, Energy, Petroleum products and Renewable Energy investments by Masdar. At Masdar Institute, Dr Griffiths has responsibility for developing large-scale, collaborative research programs that are typically part of broader strategic relationships with industry, government and academia. He also oversees the Institute's Research Centers, Sponsored Programs and Technology Transfer Offices.



## Dr Sergio Kapusta

**Chief Scientist for Royal Dutch Shell**

Dr Kapusta oversees research and development in the areas of materials, corrosion, asset integrity, reliability, energy efficiency, and physical methods of analysis. Shell is one of the leading innovative companies testing, developing and piloting micro and nano technologies for applications in exploration and efficient recovery, as well as the use of nano technology for new materials and catalysts for production, micro systems for global seismic sensors and inertial products for directional drilling.



## Dr Alexei A Andreev

**Executive Vice President & Managing Director of Harris & Harris**

Harris and Harris Group Inc is an early-stage, active investor in TRANSFORMATIVE nanotechnology companies, leveraging core expertise in nanotechnology to be FIRST in identifying and investing in nanotechnology applications in the energy, healthcare and electronic sectors. Their understanding of the science of nanotechnology and their focus on nanotechnology place them at the center of the discoveries impacting some of the most important growth sectors of the economy. As large portions of industry have come to rely on nanotechnology as a fundamental enabler for advanced products, their portfolio companies are well positioned to take advantage of the ensuing interest. Dr Andreev is an expert on nanotechnology and material science investment opportunities.

# Keynote Speakers



## Mr Travis Earles

### **Executive for Lockheed Martin Corporate Engineering & Technology**

Lockheed Martin is a global leader in security products worldwide and is principally engaged in the research, design, development, manufacture, integration and sustainment of advanced technology systems, products and services. Prior to joining Lockheed Martin, Travis served as Assistant Director for Nanotechnology in the White House Office of Science and Technology Policy, where he joined in 2007.



## Mr Stephen Graham

### **Chief Marketing Officer at Maple Leaf Foods Inc**

Mr Graham is responsible for providing executive leadership to all marketing and product development initiatives across Maple Leaf Foods businesses. Other areas of responsibility include Marketing Services, Media Services, Innovation, Digital, Consumer Affairs, Mapleleaf.com and the ThinkFOOD! Centre. Maple Leaf Foods Inc is a leading food processing company, headquartered in Toronto, Canada.



## Dr Shuichiro Ogawa

### **A general manager, the R&D group of Advanced Energy Materials Development Center, Asahi Kasei Corporation**

Asahi Kasei Group has a long tradition of innovation in a wide range of industries including chemicals, fibers, electronics, construction materials, pharma, and homes. Dr Ogawa responsibilities include development and commercialization of new functional materials for solar energy applications. He is an expert on nanotechnology and materials science.



## Dr Waguih Ishak

### **Division Vice President, Corning, Inc**

Corning is the world leader in speciality glass and ceramics. Drawing on more than 150 years of materials science and process engineering knowledge, Corning creates and makes keystone components that enable high-technology systems for consumer electronics, mobile emissions control, telecommunications and life sciences. Waguih manages a team of scientists to develop applications for Corning's glass and fiber technologies and to conduct state-of-the-art research in the areas of microstructures and nanotechnology.

# Keynote Speakers



## Mr Martin Bloom

**Chairman ReneSola, Director Intelligent Energy, CEO at Emblem Ventures**

A professional investor in high technology companies. Martin is a unique businessman who will discuss business building as a creative endeavor, with a focus on investment in and scale up of high growth technology companies. Martin has used his unique talents to build scalable high growth businesses in the US, Europe, and China, where he spends over a quarter of his time. Martin sees China as critical for the high growth prospects of Western companies.



## Dr Helen Greiner

**Founder and CEO of CyPhy Works and cofounder of iRobot**

CyPhy Works is a robotic technologies product company. A robotics industry pioneer with more than two decades of experience, Helen has helped to enhance public acceptance of robots as one of today's most important emerging technologies. Her visionary contributions in technology innovation and business leadership have been recognized with numerous professional awards. Helen was one of the founders of iRobot (NASDAQ:IRBT) an MIT spin-off and global leader of practical robots including the Roomba™ Vacuuming Robot and the PackBot™ and SUGV Military Robots.



## Dr Harrison Dillon

**President, Chief Technology Officer, and co-founder of Solazyme**

Solazyme is an industrial biotechnology company producing renewable oils and bioproducts using microalgae. Founded in 2003 and headquartered in South San Francisco, Solazyme's unique technology allows algae to produce oil and biomaterials in standard fermentation facilities quickly, efficiently and at large scale. These oils and biomaterials are tailored not only for biofuel production, but also as replacements for fossil petroleum and plant oils in a diverse range of products running from clean fuels and chemicals to cosmetics and foods.



## Dr Claus Schmidt

**Managing Director at Robert Bosch Venture Capital**

Dr Claus Schmidt is responsible for the technical strategies and decisions at RBVC. Claus gained insight into various markets, such as disk drives, display technology, automotive electronics and semiconductors and into different management challenges starting from research, development, quality and reliability engineering to purchasing, P&L responsibility and general management.



## Keynote Speakers



### Dr John Parmentola

**Senior Vice President Energy & Advanced Concepts at General Atomics**

General Atomics specializes in performing innovative R&D and transforming conceptual results into practical systems – ground breaking technologies ranging from the MagLev train to the Triga reactor to the Predator drone. Dr Parmentola served as science and technology advisor to the chief financial officer of the US Department of Energy, providing technical, budgetary and programmatic advice to DOE leaders for more than \$7 billion in science and technology investments.



### Dr Darrel Untereker

**Vice President Corporate Research & Technology, Senior Technical Fellow at Medtronic**

Medtronic is the global leader in medical technology- alleviating pain, restoring health, and extending life for people with chronic conditions around the world. Medtronic develops and manufactures a wide range of products and therapies with emphasis on providing a complete continuum of care to diagnose, prevent and monitor chronic conditions. Darrel has won numerous awards and is a Fellow in both the Electrochemical Society and the American Institute for Medical and Biological Engineering.

## Special Guests



### Mr Stephen Lougheed

**President & Chief Executive Officer, Alberta Innovates – Technology Futures (AITF)**

Tech Futures is part of Alberta's research and innovation system and is helping build healthy, sustainable businesses in the province. Through a suite of programs and services directed towards entrepreneurs, companies, researchers and investors, Tech Futures is preparing Alberta for a next generation economy. Stephen has more than 35 years of experience successfully building and leading technology-based enterprises into national and international, profitable-growth businesses.



### Mr Mel Wong

**Assistant Deputy Minister, Innovation and Advanced Technologies of Alberta Enterprise and Advanced Education**

The Alberta government ministry responsible for the growth of the knowledge-based economy in one of North America's strongest economic regions. In a wide-ranging career in the private and public sectors, and both Canadian federal and provincial governments, Mel has acquired a unique perspective on the role of government in support of sustainable economic growth.

# Special Guests



## Mr John R McDougall

**President, National Research Council**

The National Research Council (NRC) is the Government of Canada's premier organization for research and development. NRC partners with Canadian industry to take research impacts from the lab to the marketplace, where people can experience the benefits. Honoured as one of Alberta's 50 most influential citizens, Mr McDougall's career spans many sectors. Until recently, Mr McDougall served as President and Chief Executive Officer of the Alberta Research Council (ARC), a position he has held for the past 12 years.



## Dr Steven Winston

**Leader in exploring the intersection of nanotechnology and nuclear sciences**

His background in technology and connections to industry provide valuable resources to commercialization. With nearly 40 years of experience in various aspects of nuclear power, Steven has served in a variety of senior management roles for major companies. Currently providing a diverse range of technical advisory services to select clients, he served as the Vice President of Management and Technical Integration during Lockheed Martin Idaho Technologies Company's tenure as M&O contractor for the Idaho National Engineering Laboratory (now INL).



## Mr John Webb

**Wave 2011 keynote speaker and Director of Emerging Science at Maple Leaf Foods**

Canada's largest food processor, Maple Leaf Foods, is a leading consumer packaged food company, headquartered in Toronto with operations across Canada and in the United States, United Kingdom, Asia and Mexico. In this role John provides scientific support across the bakery, livestock, meat and meals business.



## Mr Markku Hirvonen

**Wave 2011 keynote speaker and ex-President and CEO of VTI Technologies Oy**

Markku has more than 25 years experience in high-tech businesses, managing various responsibility areas in international high-tech and IT industries, such as R&D, Sales and Marketing, Strategy and Business Development and Business Management. He has held several senior managerial positions at Nokia, Fujitsu (ICL/Siemens) Computers Oy and at its predecessor ICL Personal Systems Oy.

# Exhibitor Listing

COMPANY		ADDRESS	WEBSITE
<b>4iiii Innovations Inc</b> Improve sports performance and make the athlete's world safer	C1	228 River Ave, Cochrane, AB, Canada, T4C 2C1	www.4iiii.com
<b>Absolute Combustion International</b> Introducing the worlds most efficient burner technology	A9	Bay 101, 3909 - 84th Avenue, Leduc, AB, Canada, T9E 8M5	www.absolutecombustion.com
<b>Acsion Industries &amp; Canadian Light Source</b> Provider of E-beam treated products & services	B19	Building 402, Ara Mooradian Way, Pinawa, MB, Canada, R0E 1L0	www.acsion.com
<b>Advanced Diamond Technologies Inc</b> Thin, smooth diamond for breakthrough solutions	B13	48 East Belmont Drive, Romeoville, IL, USA, 60446	www.thindiamond.com
<b>AirJuice Corp</b> Wireless that works	B11	4170 Sladeview Crescent #3, Mississauga, ON, Canada, L5L 0A1	www.airjuice.com
<b>Alberta Nano-Monitoring Systems Ltd</b> Nano particle monitoring for water and industrial apps	B4	C/O PML 20 Yochanan Hasandlar St POB 25300, Haifa, Israel, 31250	www.anms.ca
<b>Animal Deterrent Systems Ltd</b> Registering one mouse at a time	C10	Bay 3, 2928 - 18th Street NE, Calgary, AB, Canada, T2E 7B1	www.animal-ds.com
<b>ANSYS Inc</b> Realize your product promise	A12	Suite 600, 900 6th Ave SW, Calgary, AB, Canada, T2P 3K2	www.ansys.com
<b>Applied Nanotools Inc</b> Fabrication of membrane optics for EUV and X-rays	B3	#1200 - 10045 111 Street, Edmonton, AB, Canada, T5K 2M5	www.appliednt.com
<b>Aquila Diagnostic Systems Inc</b> Molecular diagnostics in the field	C12	9207 117 Street, Edmonton, AB, Canada, T6G 1S3	www.aquiladiagnostics.com
<b>Argonide Corporation</b> Electroadsorbitive purification utilizing nano-technology	A18	291 Power Court, Sanford, FL, USA, 32771	www.argonide.com
<b>ASSESSx Technology Ltd</b> Transforming the way we understand and treat pain and disease	B9	6700 Danshin Village Road, Grand Forks, BC, Canada, V0H 1H5	www.ponderosaspa.bc.ca
<b>ATLOC Canada</b> Simulation and analysis of environmental impact	C25	5-8720 Macleod Trail SE, Suite: 197, Calgary, AB, Canada, T2H 0M4	www.atloc.ca
<b>Baseband Technologies Inc</b> Instant position for anything that moves	C4	Suite #120, 3553 31 Street NW, Calgary, AB, Canada, T2L 2K7	www.basebandtech.com
<b>Boreal Laser Inc</b> Laser gas detection & monitoring	A16	12846 - 146 Street NW, Edmonton, AB, Canada, T5L 2H7	www.boreal-laser.com
<b>Cealtec Products Inc</b> Nanoparticle self-healing engine treatment	B18	4131 Vanguard Rd, Richmond, BC, Canada, V6X 2P6	www.cealtec.com
<b>ChemRoutes Corp</b> Making drug discovery affordable	B26	9719 - 42 Avenue, Edmonton, AB, Canada, T6E 5P8	www.chemroutes.com
<b>Clearflow Enviro Systems Group Inc</b> We are changing the way the world uses water	A22	140, 134 Pembina Rd, Sherwood Park, AB, Canada, T8H 0M2	www.clearflowgroup.com

# Exhibitor Listing

COMPANY		ADDRESS	WEBSITE
<b>Delta Genomics</b> Biobanking, genotyping, & sequencing for the livestock industry	C24	Room 4244 Enterprise Square, Edmonton, AB, Canada, T5J 4P6	www.deltagenomics.com
<b>Dynamic Source Manufacturing Inc</b> Electronics assembly & manufacturing services	A15	Unit 117, 2765 – 48th Avenue NE, Calgary, AB, Canada, T3J 5M9	www.dynamicsourcemfg.com
<b>Encompass Inspections Inc</b> Inspection and maintaining integrity of pipelines	A11	#9 Aspen Ridge Gate, SW, Calgary, AB, Canada, T3H 5V4	
<b>Enigma Interconnect (2012) Corp</b> Your #1 PCB source	C18	8070 Winston Street, Burnaby, BC, Canada, V5A 2H5	www.enigmacorp.com
<b>FireWater Fuel Corp</b> A clean energy company	A24	#300, 1204 Kensington Road NW, Calgary, AB, Canada, T2N 3P5	www.fwfuel.com
<b>Graford</b> Developing industrial-scale graphene applications from a new standard for graphene	A20	Suite #912, 130 Albert Street, Ottawa, ON, Canada, K1P 5G4	www.www.focusgraphite.com
<b>GrowSafe Systems Ltd</b> Big data - measure monitor predict profit	C11	273216 Range Rd. 23, RR #1 Site #2 Box 29, Airdrie, AB, Canada, T4B 2A3	www.growsafe.com
<b>Guard RFID Solutions Inc</b> Active RFID that delivers immediate ROI	B24	Unit 140 – 766 Cliveden Place, Delta, BC, Canada, V3M 6C7	www.guardrfid.com
<b>HIECO, a Subsidiary of May-Ruben Technologies</b> Technology for eliminating bacteria in food with microfluidics	C27	1827 14th Street SW, Calgary, AB, Canada, T2T 3T1	www.hieco.ca
<b>Hydro Processing Ltd</b> Aeration and bioremediation process and equipment	A4	1208-73rd Ave SW, Calgary, AB, Canada, T2V 0S1	www.hpmltd.ca
<b>Ideal Aerosmith Inc</b> World-class motion and electric test solutions and services	C2	3001 S. Washington St, Grand Forks, ND, USA, 58201	www.ideal-aerosmith.com
<b>Inkubate Packaging Inc</b> Medical device packaging	B22	14133 - 128a Ave NW, Edmonton, AB, Canada, T5L 4P5	www.capitalprintingandforms.com
<b>Innovative Trauma Care Inc</b> Pre-hospital medical device	B27	1001, 8215 - 112 St, Edmonton, AB, Canada, T6G 2C8	www.innovativetraumacare.com
<b>LogiCan Technologies Inc</b> Electronics assembly & manufacturing services	B14	150 Karl Clark Road, Edmonton, AB, Canada, T6N 1E2	www.logican.com
<b>Lumiant Corp</b> Redefining material possibilities	A8	Suite 448, 3553 31st Street NW, Calgary, AB, Canada, T2L 2K7	www.lumiantcorp.com
<b>Luxmux Technology</b> Bringing the powerful capabilities of near-infrared spectroscopy to industry	A14	#300, 5 Richard Way SW , Calgary, AB, Canada, T3E 7M8	www.luxmux.com
<b>Medical Radiotracers Inc</b> Providing solutions to the nuclear medicine community	B16	451 Heffernan Drive NW, Edmonton, AB, Canada, T6R 1T1	www.medicalradiotracers.com
<b>Metabolomic Technologies Inc</b> Enhanced diagnostic testing	B25	Suite 4227, 10230 Jasper Ave, Edmonton, AB, Canada, T5J 4P6	www.metabolomictechnologies.ca

# Exhibitor Listing

COMPANY		ADDRESS	WEBSITE
<b>Micralyne Inc</b> High specs, low-medium volume MEMS producer	A26	1911 – 94 Street, Edmonton, AB, Canada, T6N 1E6	www.micralyne.com
<b>Microlynx Systems</b> Professional electronics design services	C21	Suite 107, 1925 18 Avenue NE, Calgary, AB, Canada, T2E 7T8	www.microlynxsystems.com
<b>MicroPilot Inc</b> World leader in professional UAV autopilots since 1994	A7	72067 Road 8E, Sturgeon Road, Stony Mountain, MB, Canada, R0C 3A0	www.micropilot.com
<b>MiTAB</b> Protection of smart phones in the industrial workspace	C19	#211 Advanced Technology Centre 9650 20 Ave, Edmonton, AB, Canada, T6N 1G1	
<b>MRF Geosystems Corp</b> Web-based and mobile mapping & GIS solutions	C14	Suite 200, 625 - 14th Street NW, Calgary, AB, Canada, T2N 2A1	www.mrf.com
<b>Murandi Communications</b> Innovative radio frequency solutions	A10	#3, 1339 40th Ave NE, Calgary, AB, Canada, T2E 8N6	www.murandi.com
<b>Murrenhil Corp</b> A leader in environmental protection technology	A17	199 William St N, Lindsay, ON, Canada, K9V 4B8	www.murrenhil.com
<b>Nanalysis Corp</b> Compact NMR instrumentation for industry	B17	Bay 4, 4500 5 Street NE, Calgary, AB, Canada, T2E 7C3	www.nanalysis.com
<b>NEMSOR Technologies Inc</b> Developer of nano-electro-mechanical sensors	C3	4151 Ramsay Cres, Edmonton, AB, Canada, T6H 5M9	www.nemsor.com
<b>Norcada</b> MEMS technology for scientific applications	A5	4465 - 99 Street, Edmonton, AB, Canada, T6E 5B6	www.norcada.com
<b>NovaGreen Inc</b> Biomass extraction and conversion solutions for health and environment	A1	5002 – 50 Street, Killam , AB, Canada, T0B 2L0	www.novagreen.ca
<b>One Eye Industries Inc</b> Environmental industrial filtration solutions	A6	#12 6320 11th Street SE, Calgary, AB, Canada, T2H 2L7	www.oneeyeindustries.com
<b>Panvion Technology Corp</b> Geomatics and airborne sensor company	C17	6507 148 Street, Edmonton, AB, Canada, T6H 4J4	www.panvion.com
<b>PBR Laboratories Inc</b> Bioanalytical services and contract research organization	B8	9960-67 Avenue NW, Edmonton, AB, Canada T6E 0P5	www.pbr.ca
<b>POLIGRAT Canada Corporation</b> Innovation through surface technology	C22	751 Lee Ridge Road, Edmonton, Alberta, Canada, T6K 0P6	www.poligratcanada.ca/
<b>Preciseley Microtechnology Corp</b> Independent fab-less MEMS company	C16	11421 Sask. Dr NINT Innovation Centre, Edmonton, AB, Canada, T6G 2M9	www.preciseley.com
<b>Prev Biotech</b> Prevention through innovation	B23	5005 Katz Group – Rexall Centre, University of Alberta, Edmonton, AB, Canada, T6G 2E1	www.smartneuralprotheses.com
<b>Quantum Silicon Inc</b> Quantum level devices for computing	B2	Edmonton, AB, Canada	www.quantumsilicon.org
<b>Redlen Technologies</b> (CZT) semiconductors for radiation detection and imaging	B1	123 – 1763 Sean Heights, Saanichton, BC, Canada, V8M 0A5	www.redlen.com

# Exhibitor Listing

COMPANY		ADDRESS	WEBSITE
<b>Russell NDE Systems Inc</b> Pipeline condition analysis: O&G, water & waste water	A13	4909 - 75th Avenue, Edmonton, AB, Canada, T6B 2S3	www.russelltech.com
<b>Shield Diagnostics</b> Next generation smart glucose monitoring system	B10	1-6016 132 Avenue NW, Edmonton, AB, Canada, T5A 0V5	www.shieldiagnostics.com
<b>Sky Hunter Corp</b> Airborne hydrocarbon microseep surveys	A23	225 Varsity Estates Mews NW, Calgary, AB, Canada, T3B 3C9	www.skyhunter.ca
<b>SmileSonica Inc</b> Giving patients a reason to smile	B15	Suite 4-034, NINT, 11421 Saskatchewan Dr, Edmonton, AB, Canada, T6G 2M9	www.smilesonica.com
<b>Spinduction Weld Inc</b> Ultraquality, highspeed, automated, solidstate welding systems	A25	Bay 3, 3636-7th Street SE, Calgary, AB, Canada, T2G 2Y8	www.spinduction.com
<b>Steeper Energy</b> Creating clean oil from abundant natural resources	A21	Suite 200, 1210 - 11th Avenue SW, Calgary, AB, Canada, T3C 0M4	www.steeperenergy.com
<b>Stream Technologies Inc</b> Real-time hyperspectral imaging	C26	1111-108 St NW, Edmonton, AB, Canada, T6J 6H7	www.streamtechinc.com
<b>Syngar Technologies Inc</b> Fuelling the future with PLUSWave	A3	Unit 203, 9650 - 20th Avenue NW, Edmonton, AB, Canada, T6N 1G1	www.syngar.com
<b>Tangent Design Engineering Ltd</b> Design engineering & product development	B12	Unit 109, 2719 - 7 Avenue NE, Calgary, AB, Canada, T2A 2L9	www.tangentservices.com
<b>Tekna Plasma Systems Inc</b> Plasma technology for advanced materials	C5	2935, boul. Industriel, Sherbrooke, PQ, Canada, J1L 2T9	www.tekna.com
<b>Tektronix Canada Inc</b> From nanovolts to gigahertz	C7	400 Britannia Road East, Mississauga, ON, Canada, L4Z 1X9	www.tek.com
<b>TranseON Inc</b> World's first large scale III-V semiconductor	C20	14008 106A Avenue, Edmonton, AB, Canada	www.transeon.ca
<b>ViewTrak Technologies Inc</b> "Gate to plate" food management and traceability systems	C13	#5, 9353 50th Street, Edmonton, AB, Canada, T6B 2L5	www.viewtrak.com
<b>Wave Control Systems</b> Your trusted partner in chemical metering, mixing and control	A19	9612 60th Avenue NW, Edmonton, AB, Canada, T6E 0C1	www.wavecontrol.ca
<b>Wilson Analytical Services Inc</b> Analytical services & field instruments	A2	#2075 - 61 Broadway Boulevard, Sherwood Park, AB, Canada, T8H 2C1	www.wilsonanalytical.com
<b>XploSafe LLC</b> Safe environments through chemical detection and neutralization	B20	1414 South Sangre Road, Stillwater, Oklahoma, USA, 74074	www.xplosafe.com
<b>Zedi</b> Realize oil and gas production potential	A27	902 11th Avenue SW, Calgary, AB, Canada, T2R 0E7	www.zedi.ca





# Platinum Sponsors



# Gold Sponsors



# Silver Sponsors

CORNING



# Supporters





#### ACAMP in Edmonton

1919 - 94 St NW  
Edmonton, AB T6N 1E6  
+1.780.468.2443

#### ACAMP in Calgary

Bay 3, 1480 - 28 St NE  
Calgary, AB T2A 7W6  
+1.403.291.8946

ACAMP is a not for profit organization that provides specialized services to technology clients. Clients have access to world-class equipment, facilities, expertise and a network of organizations that support and develop subsystems, systems, advanced materials and manufacturing worldwide.

ACAMP's services encompass key areas identified as critical for the commercialization of technology products - Marketing & Business Development, Product Development, Packaging and Assembly, Test and Characterization. The following outlines a few of our capabilities:

- Prototyping and low volume MNT manufacturing
- Simulation and prototype design for MNT based hardware products
- Microfluidics 12 inch hot embossing manufacturing
- Low temperature co-fired ceramic (LTCC) manufacturing
- MEMS & NEMS sensor packaging, assembly and test
- Optical packaging, assembly and test
- Ultrasound transducer & sensor test and characterization
- Lithography and electroforming
- Micromachining
- Characterization and failure analysis
- Inertial product assembly, test, characterization and measurement

ACAMP has one of the most talented product and business development groups in Canada. Our team is comprised of more than 20 experienced business professionals and product developers, each with up to 30 years' experience in taking products to market. Coming from corporations including: Analog Devices, RCA, GE, Freescale, Lucent/Bell Labs, National Semiconductor, Nortel, Infineon, STATS ChipPAC, Kymata, Oplink, LightPath and IDC.

We look forward to working with you.

[www.acamp.ca](http://www.acamp.ca)