Energy Opportunities Conference
Making Things Happen™

Sault Ste. Marie is a Global Hub for Smart Energy Projects in all phases of Development
Conception – Research and Development – Commercialization – Pilot Plant – Full Scale Operation

Tuesday, November 4th, 2014 – Thursday, November 6th, 2014

World Class Line-up of Speakers Including:

Chris Turner
Author: The Leap “How to Survive and Thrive in the Sustainable Economy”

Nick Parker
Co-Founder & Managing Partner
Global Acceleration Partners

Tom Rand
Managing Partner
Arc Tern Ventures
Author: Kick the Fossil Fuel Habit & Waking the Frog

Glen Martin
Founder & CEO
Energizing Co.

Topics and Presentations Include:

Making Energy Innovation Happen: Connecting concept developers and innovators to technology adopters.

Advanced Bioenergy: Using bioenergy as a renewable energy or fuel and advanced materials derived from biomass sources including forestry bi-products and agricultural products.

Project Execution: Set-up and implementation of successful pilot projects; including discussions with energy professionals who have found success in Sault Ste. Marie and information on funding available only in Northern Ontario.

Smart Grid Technology: New technology and business models for modernized electrical grids using ICT to gather and act on information.

Commercialization: Defining business needs, resource allocation and identifying customers. Connecting customers to developers, and project sponsors to concept developers and innovators.


New Technology & Research: Discussions with early adopters of new technology and presentations on the innovative future.

Presenting Sponsor
ENERGIZING Co.

Hosted by
SAULT STE. MARIE INNOVATION CENTRE

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Phone: (705) 942-7927 x 3028     Email: ccoutu@ssmic.com

www.saultenergy.com
Register Today – Space is Limited!

Don’t miss your chance to participate in these critical discussions and to network with leaders in the Energy Sector. Register today - Space is limited. Please visit www.saultenergy.com.

Additional benefits from this exclusive event:

- Dedicated Q&A opportunities
- 40+ speakers contributing to the advancement of Smart Energy
- Six Panel Discussions
- Five Expert Keynote Speakers
- Interactive Peer-to-Peer discussions

Ensure your company gets the most out of the Energy Opportunities Conference experience. By sponsoring this one-of-a-kind event, you can showcase your company as an industry leader. Ensure your presence is known. Select sponsorship and exhibitor packages are still available. To learn more, please contact Christina Coutu at 705.942.7927 ext.3028, or email ccoutu@ssmic.com.

Pre-Conference

Tuesday, November 4th, 2014

The Grand Hall 9:00am – 3:00pm

Biomass Innovation Centre - Professional Development Session
Bio Heat & Power

Atrium 2:00pm – 10:00pm

Registration

The Grand Hall 6:30pm – 10:00pm

Opening Ceremonies
Networking Wine & Cheese with Live Music

Sponsored by:

This document contains a sampling of the world class speakers and informative sessions that will be at the conference.
DAY #1
Wednesday, November 5th, 2014

Session 1A: Making Energy Innovation Happen
The energy sector is poised for significant change and new technologies are emerging that have great promise. This session will examine a number of topics and highlight how new technologies can gain traction in a traditional, regulated industry. Speakers will also discuss the foundation that Canada has built in this area and what it will take for the country to emerge as a leader in the global energy market.

Albert Behr
President & CEO
Behr & Associates Inc.

Jon Dogterom
Venture Services Lead
MaRS Cleantech & Physical Sciences

Jim Deluzio – Moderator
Vice President – Operations
Brookfield Renewable Energy Group

Session 1B: Biomass: The Other Northern Pipeline
Biomass is the original energy source, typically used as a fuel for heating and cooking. Now, biomass is being utilized for electricity generation, heating and in the development of bio-products and bio-additives, such as adhesives and resins. Canada is leading in the development of bio-based technologies and has an abundance of available feedstock to support innovative technologies. This session will discuss the biomass technologies and opportunities available in Ontario.

Kathyayani Mahadevan
Alternative Energy & Energy Management Business line leader
Battelle

Murray McLaughlin
Executive Director
Bioindustrial Innovation Canada

Doug Bradley
Owner
Climate Change Solutions

Jason Naccarato – Moderator
Vice President Development
SSM Innovation Centre

Breakfast & Opening Remarks
Atrium 8:00am – 10:00pm
Exhibitors Open
Over half of the exhibitor booths have been confirmed! Exhibitor opportunities still available. Please contact for details.

Keynote Speaker
Chris Turner
Author
The Leap: How to Survive and Thrive in the Sustainable Economy

Chris Turner believes the most vital project of the twenty-first century is a shift from our unsustainable way of life to a sustainable one—a great lateral leap from a track headed for economic and ecological disaster to one bound for renewed prosperity. He presents a field guide to making that jump, drawing on recent breakthroughs in state-of-the-art renewable energy, cleantech and urban design.

“It is only because of the people working here (Sault Ste. Marie) that we were able to do this... people here are real problem solvers... they get things done”

Daniel Kaute, CEO & President of Environmental Waste Management

Sponsored by: Brookfield

The Grand Hall – West
7:30am – 8:15am

The Grand Hall – West
8:15am – 9:00am

The Grand Hall – West
9:00am – 10:15am

Sault Ste. Marie Energy Innovation Hub™

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www.saultenergy.com
The Grand Hall – Centre  
10:25am – 11:45am

Session 2A: Smart Grid

The electrical grid is aging and requires upgrading in order to meet the needs of a changing energy sector. This upgrade is the Smart Grid, a modernized electrical grid that utilizes Information and Communication Technology to gather and act on information. By integrating our networks, we can make them more efficient, effective, automated and sustainable, creating jobs, resilient communities and healthier environments. During this session, industry leaders will showcase smart grid integration and opportunities for investment and development. They will also discuss successful practices about modernized electrical grids.

Craig Rizzo  
Program Manager  
Leidos

Jennifer Hiscock  
Science & Technology Advisor  
Government of Canada CanmetENERGY

Jason Black  
Research Leader  
Battelle

Dominic Parrella – Moderator  
President & CEO  
PUC Service Inc.

The Grand Hall – East  
10:25am – 11:45am

Session 2B: Energy Enablers

Let’s hear from organizations that are deeply involved with providing energy to consumers on a daily basis and those involved in regulating and managing our complex energy system. Learn where we are heading in Ontario and what the long term plans are for the energy system in Ontario and how to integrate new technologies to improve system reliability and performance.

Additional speakers to be announced

The Grand Hall – Centre  
1:15pm – 2:30pm

Session 3A: Big Data & Smart Cities

The challenges of Big Data include capture, storage, search, sharing, transfer, analysis and visualization. This dynamic session will provide examples of how data is being utilized, collected and mashed together to deliver improved services and create smarter cities.

Paul Beach  
Manager, Community Geomatics Centre  
SSM Innovation Centre

Additional speakers to be announced

The Grand Hall – West  
12:00pm – 1:15pm

Lunch and Keynote Speaker

Nick Parker  
Co-Founder & Managing Partner  
Global Acceleration Partners

For over three decades, Nicholas Parker has pioneered sustainable venturing ideas and initiatives around the world. He is currently Founding Managing Partner of Global Acceleration Partners Inc. (“GAP”), a financial enterprise established in 2012 to address global megatrends shaping basic needs for resource-efficient clean energy, food, water and infrastructure by accelerating cross-border deployment of proven technologies and business models into high growth emerging economies. GAP seeks both superior value creation and positive impact at scale.

Nicholas earned a BA Tech, Hons. (Carleton University, Ottawa), an MBA in International Business (City University, London), and is a Fellow of the Royal Society for the Arts, Manufactures and Commerce (RSA). He has lived and worked in Africa, Asia, Europe and North America while currently residing in Toronto. Nicholas has authored or edited more than ten books related to cleantech, finance and international business, starting with Investing in Emerging Economies in 1993, co-published by The Economist and the International Finance Corporation. He’s spoken at thousands of industry events and been quoted by most major print media.

The Grand Hall – Centre  
1:15pm – 2:30pm

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Paul Beach  
Manager, Community Geomatics Centre  
SSM Innovation Centre

Additional speakers to be announced

Tom Vair – Moderator  
Executive Director  
SSM Innovation Centre

In addition to the many alternative energy companies and infrastructure, the Sault offers unique advantages to any business. The Sault is home to award winning energy professionals, educational facilities, research and development centres, and structured support systems for new and existing business. The Sault is developing projects in smart grid optimization and implementation. These projects are strengthened by our community’s ICT talent pool, as well as through strategic partnerships with external firms. The region also has unique funding opportunities exclusively available for Energy Projects, and has a team in place to remove barriers, and create soft landings for business.

Daniel Kaute
President & CEO
Environmental Waste International

Glen Martin
Founder & CEO
Energizing Co.

Karen Bird
Renewable Energy Director
Batchewana First Nation

Jayson Zwierschke
Founder, President & CEO
Elementa Group

Session 4A: Energy Storage

Energy storage systems, representing the whole range from residential applications to the bulk transmission level, allow us to integrate electricity from any source into a more resilient and reliable grid. Energy storage technologies can harvest off-peak electricity and re-deploy it during times of peak demand thereby increasing system flexibility and resilience. It also comes in forms that allow us to convert surplus electricity into transportation fuel, into a natural gas additive or into thermal storage which reduces our demand on fossil fuels. Storage solutions need not be tied to the electricity system but can provide smart solutions through the injection of hydrogen gas into the fossil fuel system, solar and geo-exchange thermal solutions and more. Learn more about exciting energy solutions and the opportunities for investors, developers and system operators.

Rob Reid – Moderator
Owner & Senior Energy Industry Executive
N-Sci Technologies

Additional speakers to be announced

Session 4B: International Energy Best Practices

International experts will present forest based bioenergy concepts and practices from Finland, with reflection on the impacts and similarities to Canada. Examples of successful concepts already transferred to Canada will be discussed, and possibilities for effective cooperation internationally between business, research and development, as well as investment opportunities.

Matti Kymenvaara
Bioeconomy Expert, Networker & Project Developer
Forestry Development Centre Tapio

Dr. Lauri Sikanen
Senior Research Scientist
Finnish Forest Research Institute

Keynote Speaker

Peter H. Asmus
Principal Research Analyst
Navigant

As a Principal Research Analyst, Peter Asmus has emerged as a leading global expert on microgrids and virtual power plants. With 25 years’ experience, Peter is author of four books on energy and environmental issues, and has served as a consultant to many leading corporations (General Electric, Sunpower, Clipper Wind), government agencies (California Energy Commission, California Air Resources Board) and non-profit agencies (Center for Energy Efficiency & Renewable Technologies, Governor’s Wind Energy Coalition, Independent Energy Producers, Center for Resource Solutions.) His prime expertise is integration of renewable energy to the grid, public policy analysis, writing and public speaking.

Peter Asmus is co-author of the following research studies:

◊ Market Data: Microgrids, 1Q 2013, Navigant Research
◊ Virtual Power Plants, 1Q 2013, Navigant Research
◊ Microgrid Enabling Technologies, 3Q 2012, Navigant Research
The Grand Hall – Centre  9:00am – 10:15am

Session 5A: Advanced Solar

The solar industry is in a constant state of change with the goal of not only improving the efficiency of solar panels, but also to create new products and community installations. Experts will share experiences and technologies around solar and where the industry is heading in the future.

- Martin Pochtaruk
  President
  Heliene Inc.

- Bill Wong
  Program Manager
  Leidos

- Kris Stevens – Moderator
  Executive Director
  Ontario Sustainable Energy Association

The Grand Hall – Centre  10:25am – 11:45am

Session 6A: Funding and Financing

This session brings leading financial experts together to share with you the financing challenges and opportunities for innovative technologies, manufacturers, building owners and sustainable energy proponents. Learn where to turn to for grants, incentives, debt and equity and about new emerging opportunities for investors, developers and operators in the sustainable energy economy.

- Bruce Strapp
  Executive Director
  Northern Ontario Heritage Fund Corporation

- Tom Rand
  Manager Partner
  Arc Tern Ventures

The Grand Hall – West  7:30am – 8:15am

Breakfast

The Grand Hall – West  8:15am – 9:00am

Keynote Speaker

- Tom Rand
  Author
  *Kick the Fossil Fuel Habit & Waking the Frog*

*Waking the Frog* is as much about solutions as it is an account of our present paralysis. Our ingenuity, technology, capital, and policy can work together to turn down the heat and at the same time enable the largest economic opportunity of the 21st century.

Energy Assets Industry Tours

Sault Ste. Marie possesses an impressive array of distributed energy generation assets and companies. Why not take advantage of being in “the Sault” and take a tour to see firsthand some of the impressive operations including the 60 MW solar field; 189 MW wind farm; solar panel assembly plant; waste-to-energy project and more! Buses will depart from the front of the hotel at 5pm – don’t miss out!

Dinner TBA

The Grand Hall – Centre  6:30pm – 10:00pm

Dinner TBA
Session 6B: Today’s Bioenergy Options

Bioenergy provides value-added development opportunities for Ontario’s forestry and agriculture sectors and is part of Ontario’s commitment to clean energy production. Ontario’s strong forestry sector and canola and grain base can provide a consistent feedstock for bioenergy facilities. This session will discuss the emerging technologies that have the potential to convert this waste to bioenergy products, including renewable fuels.

Biomass Innovation Centre
Fueling growth through clean technology

Panel of Experts

Dawn Lambe – Moderator
Manager
Biomass Innovation Centre

Boxed Lunch

Keynote Speaker

Glen Martin
Founder & CEO
Energizing Co.

Glen Martin will discuss the history and development of the Sault Ste. Marie economy through five epochs (First Peoples, New France and Métis, British North America, American Industrialist and Restorative Development), and how that informs Energizing Co.’s work with other restorative developers and innovators in the city; focusing particularly on projects in energy utility infrastructure. He will also speak briefly to the leadership role Sault Ste. Marie will play as home to Energizing Co.’s flagship microgrid project in North America.