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Michelle Berquist,
Project Leader, Transportation Planning,
CITY OF MISSISSAUGA



Dr. Ann Cavoukian,
Distinguished Expert-in-Residence,
Privacy by Design Centre of Excellence,
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Matti Siemiatycki,
Canada Research Chair in Infrastructure
Planning & Finance and Interim Director,
**THE UNIVERSITY OF TORONTO SCHOOL
OF CITIES**



Pierre Lavallée,
President and CEO,
CANADA INFRASTRUCTURE BANK



Bruce G. Matthews,
P.Eng., CEO,
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Melanie Hare,
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Heather Kathol,
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CITY OF CALGARY



Chris Gauer,
President, Major Projects,
INFRASTRUCTURE ONTARIO



Joshua Engel-Yan,
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Karen Gasmol,
Director Sustainable Infrastructure,
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Heather Auld,
Principal Climate Scientist,
RISK SCIENCES INTERNATIONAL



Kayla Dixon,
Director of Engineering & Operations,
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Melissa McCabe,
Manager, Infrastructure Services,
CITY OF OSHAWA

Simon Eng,
Climate Change and Engineering,
RISK SCIENCES INTERNATIONAL

May 14 – 15, 2019 • Toronto, Ontario

Building the Next Generation of

Canadian Infrastructure

Future Proofing Strategies for Success

Defining a roadmap for optimizing infrastructure planning,
implementation and operation

Two days of expert advice on preparing for the future of
infrastructure implementation

- Hear the vision statement for 2030
- Be briefed on Ontario's Long Term Infrastructure Plan
- Public transit is integral to the future - find out where we're going
- Case studies in Smart City and IoT infrastructure implementation
- Project management is evolving to meet the demands
- Funding the future - the smart options to succeed
- Consolidating long term planning

EVENT PARTNERS



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Building the Next Generation of **Canadian Infrastructure**

May 14-15, 2019 • Toronto, Ontario

DAY ONE PROGRAM AGENDA: TUESDAY, MAY 14, 2019

7:30 – 8:30 Registration and Continental Breakfast

8:30 – 8:45

Welcome and Opening Remarks from the Co-Chairs

Alexander Hay, Principal, Southern Harbour Ltd

Bruce G. Matthews, P.Eng., CEO, Consulting Engineers of Ontario

8:45 – 9:15

KEYNOTE ADDRESS

Canada Infrastructure Bank - Canada's Newest Agency to Invest in the Future

Pierre Lavallée, President and CEO of Canada Infrastructure Bank

- The mandate is to invest up to \$35 billion into new, revenue-generating infrastructure projects alongside private and institutional investors and provide advisory services to potential project sponsors.
- By engaging the expertise and capital of the private sector, CIB will help provide more infrastructure for Canadians.
- CIB's priority areas are public transit, trade and transportation, and green infrastructure

9:15 – 10:15

Creating a Unifying Approach to Project Management

Chris Gauer, President, Major Projects, Infrastructure Ontario

- The changing landscapes of project management partnerships
- Identifying user strategies that are a win-win for mobility users
- Integrating the future vision of transit into today's planning
- Influencing the public's best practices for future strategies
- Providing the decision making tools to policy makers

10:15 – 10:30

Networking Break



10:30 – 11:15

The Economics of Building the Future

Matti Siemiatycki, Canada Research Chair in Infrastructure Planning & Finance and Interim Director, The University of Toronto School of Cities

- Infrastructure decisions of today have wide ranging economic implications
- Cities of 2030 will have new economies of scale and density
- Policy decisions must be evidence based yet flexible
- Proper economic considerations benefit all socio-economic levels
- Stimulation of economic growth
- Creation of employment opportunities
- Amelioration of environmental problems

11:15 – 12:00

Smart(er) Suburban Streets: Insight from Mississauga's Ambitions for Smart Traffic Management

Michelle Berquist, Project Leader, Transportation Planning, City of Mississauga

- Vision and values in twin Master Plans for Transportation and the Smart City
- Enabling infrastructure: Mississauga's Advanced Traffic Management System
- Pain points and possibilities for the future of traffic management
- Implementation considerations from the municipal perspective

12:00 – 1:00

Luncheon Break

1:00 – 2:00

Keeping an Eye on the Prize: Benefits Management in Project Delivery

Joshua Engel-Yan, Principal Sponsor at Metrolinx

- Attaching 'sponsors' to projects to ensure long term viability and relevance
- Using business cases as a consistent and transparent approach to measuring and tracking benefits and value
- Adopting governance to link project decisions to benefits and project readiness
- Ensuring the outcomes the project is trying to achieve are being delivered
- Lessons learned from the UK and the Metrolinx experience in governance of major infrastructure projects

2:00 – 2:15

Networking Break



2:15 – 3:15

PANEL DISCUSSION

Financing The Future

Alexander Hay, Principal, Southern Harbour Ltd

Bruce G. Matthews, P.Eng., CEO, Consulting Engineers of Ontario

- Adaptation and fiscal risk disclosure
- Smart management approaches
- Incorporating climate change risk and resiliency
- Pension funds play a vital role with enormous potential
- Dedicated revenue streams allow for better planning
- The politics of major projects
- Carbon pricing in the future of infrastructure
- Value adding techniques - the international examples

3:15

End of Day One

TORONTO, ONTARIO

EVENT LOCATION: TORONTO, ONTARIO

Building the Next Generation of Canadian Infrastructure will be held at a convenient downtown location in Toronto, Ontario. Detailed venue information will be forthcoming as it becomes available.

Building the Next Generation of **Canadian Infrastructure**

May 14-15, 2019 • Toronto, Ontario

DAY TWO PROGRAM AGENDA: WEDNESDAY, MAY 15, 2019

7:30 – 8:30 Registration and Continental Breakfast

8:30 – 8:40

Welcome and Opening Remarks from the Co-Chairs

Alexander Hay, Principal, Southern Harbour Ltd

Bruce G. Matthews, P.Eng., CEO, Consulting Engineers of Ontario

8:40 – 9:20

Growth and Infrastructure Planning in the GGH: 2006, 2017 and the next 50 years.

Melanie Hare, Partner, Urban Strategies

- An overview of the policies and planning framework for the Greater Golden Horseshoe
- Planning for mobility, green infrastructure and city building continues to evolve
- Embracing disruptors and innovation as we plan for ongoing rapid growth in the GGH

9:20 – 10:00

CASE STUDY

Climate Change & Risk Management for Urban Systems

Heather Auld, Principal Climate Scientist, Risk Sciences International

Simon Eng, Climate Change and Engineering, Risk Sciences International

- Implement climate change resilience measures by public agencies (i.e. adaptation)
- Toronto Hydro is embracing climate change risk management and resilience measures
- What this means for the corporation, municipality, agency and their clients
- Integral planning, risk management and opportunities for the future

10:00 – 10:15

Networking Break



10:15 – 11:00

Smart Cities of Privacy, Not Surveillance: De-Identify Data at Source

Dr. Ann Cavoukian, Distinguished Expert-in-Residence, Privacy by Design Centre of Excellence, Ryerson University

- Shifting away from centralization of data and current models
- Pushing for decentralization -- SmartData
- Looking under the hood of AI -- Algorithms gone wild
- AI Ethics by Design
- Concerns over data security & privacy in Smart Cities
- De-identifying data at the source to prevent surveillance models

11:00 – 12:00

PANEL DISCUSSION

Smaller Cities and Big Challenges in Regional Development

Moderator: Heather Auld, Principal Climate Scientist, Risk Sciences International

Kayla Dixon, Director of Engineering & Operations, City of Thunder Bay, ON

Karen Gasmo, Director Sustainable Infrastructure, City of Regina SK

- Mandating outcomes through solid planning and policies
- Rapid growth in small regional centres have special considerations
- Linking bigger centres to satellite communities
- Maintaining civic standards and identity in long term planning
- Managing infrastructure post-delivery
- Extending and adapting current infrastructure

12:00 – 1:00

Luncheon Break

1:00 – 2:00

Maximizing Infrastructure Lifecycle Value by Design

Bruce G. Matthews, P.Eng., CEO, Consulting Engineers of Ontario

- Why “low price” is antithetical to “best lifecycle value”
- Timing is everything – when can lifecycle value be influenced and optimized?
- The role of the designer in providing best lifecycle value
- The critical importance of good asset management planning

2:15 – 2:30

Networking Break



2:30 – 3:15

CASE STUDY

A Novel Approach to Infrastructure Investment in Calgary

Heather Kathol, Manager, Infrastructure Calgary, City of Calgary

- Aligning the capital budget process to service based budgeting
- Prioritizing and allocating capital in a constrained environment
- Strategic management of infrastructure assets
- Applying the resilience lens to investment planning

3:15 – 4:15

PANEL DISCUSSION

Creating A Roadmap for the Future - A Pan Canadian Strategy

Moderator: Alexander Hay, Principal, Southern Harbour Ltd

Heather Kathol, Manager, Infrastructure Calgary, City of Calgary

Michelle Berquist, Project Leader, Transportation Planning, City of Mississauga

Melissa McCabe, Manager, Infrastructure Services, City of Oshawa

Karen Gasmo, Director Sustainable Infrastructure, City of Regina SK

- Moving towards a nationwide strategy - better government relationships at all 3 levels
- Ensuring transparency and accountability
- Incorporating the Climate Lens
- Anticipating an older, urbanized population - raising public awareness
- Interoperability and compatibility of systems is crucial to advancing infrastructure
- Growing infrastructure expenditures means growing competitiveness
- User pay models to fund needed infrastructure
- Connecting infrastructure through the next generation of data systems
- Maintaining competition through the use of a common language
- Skill set challenges in the workforce and operators
- Define a roadmap for all levels of government to follow

4:15

End of Conference

Building the Next Generation of **Canadian Infrastructure**

May 14-15, 2019 • Toronto, Ontario

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LOCATION:

Building the Next Generation of Canadian Infrastructure will be held at a convenient location in Toronto, Ontario. Detailed venue information will be forthcoming as it becomes available.

YOUR REGISTRATION INCLUDES:

Registration fees include all course materials, continental breakfast, lunch, and refreshments. **Parking and accommodation are not included.**

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