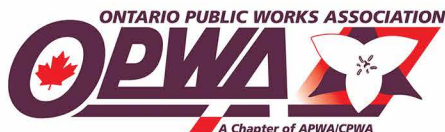


2017

# ROW

## MANAGEMENT

## CONFERENCE



# WELCOME FROM OPWA

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The Ontario Public Works Association (OPWA) welcomes each of you to the 2017 ROW Management Conference. It is an exciting time for OPWA and the new ROW Management Committee as it delivers the ROW Management Conference for the first time. Similar to the previous conferences, this year's event is offering engaging speakers with a wealth of experience in ROW management. These speakers will be discussing some of the many issues that confront ROW experts and users. We hope that this event meets your expectations and helps you in the management of the public rights-of-way.


Sincerely,



Michelle Albert  
OPWA President




Brian Barber, P.Eng.  
Executive Director, OPWA



**BE SOCIAL**

Let your networks know about  
**ROW Conference**

**#OPWAROW2017**

Connect with OPWA on social media  @OPWA1  /apwatv

# WELCOME FROM ROW MANAGEMENT CO-CHAIRS

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Welcome to the Third Annual Right of Way Management Conference!

On behalf of the Ontario Public Works Association (OPWA), Right of Way (ROW) Management Committee and Conference Coordination Sub-committee, we welcome you to the 2017 ROW Management Conference. The mission of the ROW Management Committee is to develop relationships and share knowledge and best practices on the efficient use and management of public rights-of-way. This Conference is central to the delivery of this important mission.

New technologies are creating solutions for overcoming the challenges that we face as ROW demands increase and change. This year the ROW Management Conference theme is *New Technologies in ROW Management* with several presentations focused on this theme. We hope that you leave the conference with fresh ideas, new contacts in the industry and knowledge of new technology that supports your work and interests.

Please join us in thanking the presenters, sponsors, exhibitors and advertisers for their support of the 2017 ROW Management Conference. Through their support OPWA can offer this unique, affordable and engaging event. We also thank you for attending and making the conference a continued success.

Sincerely,



Steve Murphy and Lawrence Arcand,  
Co-Chairs, OPWA ROW Management  
Committee

Tracey Anastacio,  
Chair, OPWA ROW Management  
Conference Coordination Sub-committee

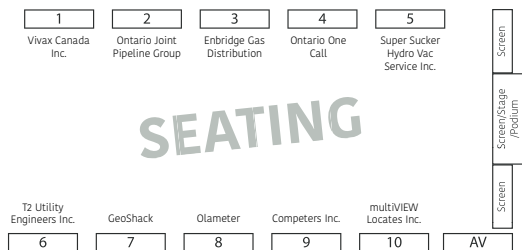
# AGENDA

7 a.m. to 8 a.m.	Registration Exhibitor Displays Open	Sponsored by  <b>PLANVIEW</b> Utility Services Ltd.
8 a.m. to 8:30 a.m.	Welcome and Opening Remarks Brian Barber, OPWA	
8:30 a.m. to 9 a.m.	Keynote Presentation <i>The History of Technology in Subsurface Utility Engineering</i> Jim Anspach, Cardno Inc.	
9 a.m. to 10 a.m.	<b>Breakout Sessions</b>  <i>Public Utility Coordination Workshop - Westney 1</i> Tracey Anastacio, City of Markham Jevito Marchese, City of Mississauga  <i>New Locate and GPS Technology - Westney 2</i> Jeremy Long, Vivax Metrotech Adam Tyler, GeoShack  <i>Universal Accessibility in Public Realm: York Region's Experience - Mr. C</i> Piragal Thiru, The Regional Municipality of York Mary Bartolomucci, Accessibility Directorate of Ontario	
10 a.m. to 10:45 a.m.	Networking Break	Sponsored by 
10:45 a.m. to 11:45 a.m.	<b>Breakout Sessions</b>  <i>Utility Coordination – Lessons on Major Infrastructure Projects - Westney 1</i> Lawrence Arcand and Jamie Bradburn, T2 Utility Engineers  <i>It's About Time. Stop Cutting Corners and Let's Get Moving – An Integrated Approach to Keyhole Technology - Westney 2</i> Jesse Blokhuis, Super Sucker  <i>MTO Online Permitting – Highway Corridor Management - Mr. C</i> Tony Di Fabio, Ministry of Transportation (MTO)	

# AGENDA

<p><b>11:45 a.m. to 12:45 p.m.</b></p>	<p>Sponsored by</p> <p><b>Lunch</b></p> <p><b>alectra</b> utilities</p> <p>Discover the possibilities</p>
<p><b>12:45 p.m. to 1 p.m.</b></p>	<p><b><i>OPWA ROW Management Committee and Sub-committees Presentation</i></b> Steve Murphy and Lawrence Arcand</p>
<p><b>1 p.m. to 2 p.m.</b></p>	<p><b>Breakout Sessions</b></p> <p><b><i>Leveraging Trenchless Construction Methods for New Construction - Westney 1</i></b> John Currey, Earth Boring</p> <p><b><i>After the Permit – What Happens to the Data? Managing GIS/CAD Data for Municipal Use - Westney 2</i></b> Charlie Lauricella, City of Hamilton</p> <p><b><i>Update to ASCE 38 and the Utility Engineer Profession - Mr. C</i></b> Jim Anspach, Cardno Inc.</p>
<p><b>2 p.m. to 2:30 p.m.</b></p>	<p>Sponsored by</p> <p><b>Networking Break</b></p> <p><b>EMERY</b> INVESTMENTS</p>
<p><b>2:30 p.m. to 3:30 p.m.</b></p>	<p><b>Breakout Sessions</b></p> <p><b><i>Panel Discussion Methods to Streamline Access to the Right-Of-Way - Westney 1</i></b> Janis Ingram, The Regional Municipality of York Kelly Hess, City of Calgary Tim Brown, Cogeco Connexion Neerajah Raviraj, Enbridge Gas Distribution &amp; Power Ed Plant, Federation of Canadian Municipalities Gord McGuire, Facilitator</p> <p><b><i>Holographic Technology Ready to Take GIS Applications to the Next Level - Westney 2</i></b> Alec Pestov, Meemin Inc.</p>

# FLOORPLAN AND EXHIBITOR DIRECTORY



## 1. Vivax Canada Inc.

**VIVAX**  
**METROTECH**

Jeremy Long  
41-6 Courtland Avenue,  
Concord, ON L4K 3T3  
p: (289) 846-3010  
e: jeremy.long@vxmt.com  
w: vivax-metrotech.com

## 2. Ontario Joint Pipeline Group



Trans-Northern



Gretchen Gordon  
86 Healey Road,  
Bolton, ON L7E 5A7  
p: (905) 951-4336  
e: gretchen.gordon@transcanada.com

## 3. Enbridge Gas Distribution



Mark Wilson  
500 Consumers Road,  
North York, ON M2J 1P8  
p: (416) 758-7958  
e: mark.wilson@enbridge.com  
w: enbridgegas.com

## 4. Ontario One Call



Jeff Hitchcock  
104-1 Cooper Drive,  
Guelph, ON N1C 0A4  
p: (519) 265-8006 ext 8806  
e: jhitchcock@on1call.com  
w: on1call.com

5. **Super Sucker Hydro Vac Service Inc.**



Jesse Blokhuis  
680-11B Tradewind Drive,  
Ancaster, ON L9G 4V5  
p: 1 (866) 227-7722  
e: jesse.blokhuis@supersucker.ca  
w: supersucker.ca

6. **T2 Utility Engineers Inc.**



Lawrence Arcand  
1615 Dundas Street East,  
3<sup>rd</sup> Floor Lang Tower  
Whitby, ON L1N 2L1  
p: (905) 668-8822  
f: (905) 571-1395  
e: lawrence.arcand@t2ue.com  
w: t2ue.com

7. **GeoShack**



Adam Tyler  
35-21 McCleary Court,  
Concord, ON L4K 3Y9  
p: 905-669-9759  
e: atyler@geoshack.com  
w: geoshack.com

8. **Olameter**

*Olameter*

Michael Lunau  
300 Industrial Parkway South,  
Aurora, ON L4G 3T9  
p: 1 (800) 903-7003  
f: 1 (877) 864-2831  
e: info@olameter.com  
w: olameter.com

9. **Competers Inc.**



Shane Hart  
46 Bushmills Crescent,  
Guelph, ON N1K 1T7  
p: (226) 338-8906  
e: competers.com  
w: shaneh@competers.com

10. **multiVIEW Locates Inc.**



Amanda Graff  
325 Matheson Boulevard East,  
Mississauga, ON L4Z 1X8  
p: 1 (800) 363-3116  
f: (905) 629-7379  
e: info@multiview.ca  
w: multiview.ca

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# KEYNOTE ADDRESS

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## **The History of Technology in Subsurface Utility Engineering**

8:30 a.m. to 9 a.m.

*Jim Anspach, Cardno Inc.*

Technology since the mid-twentieth century has undergone a continuous revolution of the aspects of conducting utility investigations. New methods of gathering data, combined with new methods of positioning and interpreting and managing those data, have enabled us to better manage our rights-of-way. We will look at some of the changes in technology from Roman times though today, and a glimpse of what might be coming, from Jim Anspach, President of ASCE's Utility Engineering and Surveying Institute.



### ***About the Kenote Speaker***

Jim Anspach is a founding Governor and President of the American Society of Engineer's Utility Engineering and Surveying Institute (UESI). He is Chair Emeritus of ASCE's Codes & Standards Committee for all standards across all civil disciplines. Jim is a frequent contributor to the American Public Right of Way's ROW Committee and activities. Jim is considered the "Father" of subsurface

utility engineering and was highly involved in getting the Common Ground Alliance started in the United States. Jim has been a speaker at IRWA meetings and has been a keynote speaker for many organizations over the years. He is highly experienced in utility coordination issues and updated US State DOT practices. He frequently works on legislation and practices for managing utilities in public rights-of-way. Jim currently works at Cardno Inc., an international environmental and civil engineering services firm.

# SESSIONS

9 A.M. TO 10 A.M

## Public Utility Coordination Workshop

9 a.m. to 10 a.m.

*Tracey Anastacio, City of Markham*

*Jevito Marchese, City of Mississauga*

Join us in a peer discussion about Utility Coordination in with the right-of-way. Discover how other Ontario municipalities approach Public Utility coordination committee meetings, municipal consent requirements and circulation approval processes. Learn how others bring coordination full circle in with field red line changes and as built records.

### About the Speakers



#### Tracey Anastacio

Tracey Anastacio has over 20 years experience in the utility sector. She began her career with the Ingersoll Public Utility Commission, working with hydro, sewer and water infrastructure. Tracey then moved into the private sector where she worked with the Telecommunications Industry Contractors taking on increasingly challenging roles, eventually completing Joint Use & Structures projects and overseeing

a Municipal Consent Permit Group. Tracey is now working for the City of Markham as the Utility Coordinator responsible for utility coordination including Municipal Consent Permits. She has overseen the streamlining of the permit process migration from paper to digital, was involved with Municipal Access Agreement negotiations and created Markham's Municipal Consent Guidelines. Tracey was instrumental in the start of this Right of Way Management Conference, now in its 3rd year.



#### Jevito Marchese

Jevito (J.J.) Marchese is the Supervisor, Maintenance Standards and Permits (Acting) for the City of Mississauga. As the Chair of the City's Public Utilities Coordinating Committee (PUCC), J.J. helps to foster open communication among key stakeholders and ensure that policies and procedures are upheld. As Chair of the Public Utility Coordination Management Sub-committee for the Ontario Public

Works Association, J.J. is engaging municipalities across the province to develop best practice guidelines for local PUCCs to use. J.J. also serves as a member of the Transportation Association of Canada Public Utilities Sub-committee. He is a Certified Engineering Technologist and holds a Bachelor of Business Administration from Brock University.

# SESSIONS

9 A.M. TO 10 A.M

## New Locate and GPS Technology

9 a.m. to 10 a.m.

*Jeremy Long, Vivax Metrotech Canada*

*Adam Tyler, GeoShack*

Jeremy Long will be giving a brief overview of how Utility Locators function, and provide a look into the new technology that is available to streamline the work flow process of locating and mapping utilities by combining this into one process. Adam Tyler will speak about GNSS reliability and factors that may affect mapping results.

### About the Speakers



#### Jeremy Long

Jeremy Long is the Canadian Regional Sales Manager for Vivax Metrotech. He has been in the Municipal and Utility industry for over 10 years, with his primary focus on underground utility equipment. He is also a certified Damage Prevention Technician, and uses his knowledge of locating to provide training and support to companies and individuals across Canada. Problem solving and helping customers be successful is what Vivax Metrotech does best.



#### Adam Tyler

Adam Tyler is a geo-positioning sales professional. He is a supplier of GNSS and laser technology that is capable of taking highly precise measurements with ease. He is knowledgeable about geographic information systems (GIS). His experience extends almost fifteen years. During this time he has worked with many clients in the above-ground and below-ground utility space.

# SESSIONS

9 A.M. TO 10 A.M

## Universal Accessibility in Public Realm: York Region's Experience

9 a.m. to 10 a.m.

*Piragal Thiru, The Regional Municipality of York*

*Mary Bartolomucci, Accessibility Directorate of Ontario*

This presentation will share how the *Accessibility for Ontarians With Disabilities Act*, 2005 (AODA) was implemented within the Transportation Services Department at the Regional Municipality of York. With a focus on the Design of Public Spaces and Transportation Standards, the presentation will share the challenges and solutions that were adopted by the Department in order to make its infrastructure and services universally accessible for all users.

### About the Speakers



#### Piragal Thiru

Piragal Thiru is the Transit Policy and Accessibility Services Planner with the Regional Municipality of York and the departmental lead responsible for the implementation of the accessibility legislations. Using the universal accessibility approach for accessibility compliance, he has demonstrated success in strategy development, stakeholder

consultation, policy design, legislative compliance and evaluation. Given his experience with the accessibility legislations, Piragal was selected to serve on the Province's Transportation Standards Review Committee. He holds a Masters Degree in Public Policy, Administration and Law from York University.



#### Mary Bartolomucci

Mary Bartolomucci has been with the OPS since 1987 in various ministries such as the Ministry of Culture and Citizenship, Health, Attorney General, the Ontario Heritage Trust and Ministry of Infrastructure in realty development and infrastructure planning – both in areas of policy, strategic capital planning and operations.

Mary worked closely on the governance and oversight of Ontario's realty

# SESSIONS

9 A.M. TO 10 A.M

## *Universal Accessibility in Public Realm: York Region's Experience cont'd*

agencies, Infrastructure Ontario on the planning of the government's realty portfolio, and Waterfront Toronto (through a tri-government partnership oversight role with the Federal government and the City of Toronto). In May 2015, Mary joined the Accessibility Directorate of Ontario (ADO) as Director of Standards Policy & Compliance Branch where she leads her teams through the implementation of policy and legislative requirements of the Accessibility for Ontarians with Disabilities Act. Mary also links across her provincial and federal counterparts across Canada on the understanding of the AODA, as well as broader accessibility issues. Mary, representing the Province of Ontario, was a member of the Canadian Delegation on its appearance to the United Nations on Canada's first report about the Convention on the Rights for Persons with Disabilities in Geneva, Switzerland earlier this spring.

The solution to affordable real-time utility mapping is in the "VM-MAP" application from Vivax-Metrotech. Now with the push of a button add an additional layer of confirmation to a locate.

- Real-time utility mapping
- Plug-and-play Bluetooth/GPS
- Easily pairs with most devices
- Email in KML and CSV file format
- Easy integration into GIS mapping software



Record #93	
Date	2008-04-14
Time	09:28:41
Program	256.842
Current	0.04 A
Depth	3.89 ft
Direction	Unknown
Latitude	37°22'48.09" N
Longitude	-71°17'55.27" W

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Email: [canadiansales@vxmt.com](mailto:canadiansales@vxmt.com)  
Web: [www.vivax-metrotech.com](http://www.vivax-metrotech.com)

# SESSIONS

10:45 A.M. TO 11:45 A.M

## Utility Coordination – Lessons on Major Infrastructure Projects

10:45 a.m. to 11:45 a.m.

*Lawrence Arcand and Jamie Bradburn, T2 Utility Engineers*

This presentation will explore the key aspects of Utility Coordination on Major Infrastructure Projects. It will explore lessons learned from actual projects and explore some of the latest technologies, such as Multi-Channel GPR, LIDAR and 3D Models, being used on these projects. The presentation will highlight the Hamilton LRT project, being completed for Metrolinx, and show how the Utility RISKS are being managed.

### About the Speaker



#### Lawrence Arcand

Lawrence Arcand is a Professional Engineer registered in five provinces across Canada. He is the President of T2 Utility Engineers. He is very active in the Utility Engineering Industry sitting on and chairing many groups, including the OPWA ROW Management Conference where he is Co-Chair with Steve Murphy.



#### Jamie Bradburn

A graduate of Guelph University, Jamie is a geophysical technician, with over 20 years' experience. In his current role as Operations Manager of T2 Utility Engineers, he is responsible for the overall field operations and training of the company across Canada and Internationally.

## **It's About Time. Stop Cutting Corners and Let's Get Moving – An Integrated Approach to Keyhole Technology**

10:45 a.m. to 11:45 a.m.

*Jesse Blokhuis, Super Sucker*

Gridlock is one of the most important issues facing our communities today. To improve flow and optimize existing infrastructure, consideration must be given to available innovative solutions. With keyhole techniques, rather than large rectangular road cuts, maintenance activities are quickly conducted with vacuum excavation through small circular, cored pavement openings, resulting in significant cost savings, reduced public inconvenience and more efficient repairs. As proven, permanent restoration process and by reusing the removed core, current infrastructure is protected and future disruptions and call backs are eliminated. As part of an integrated approach, utilizing keyhole technology, municipal/utility operations can realize significant savings, while consumers and the general public also benefit through less disruption and noise, quicker repair times, fewer and shorter service interruptions and reduced traffic inconveniences.

### ***About the Speaker***



#### **Jesse Blokhuis**

Jesse has been with Super Sucker for three years in a business development role specifically focusing on Municipalities, Engineers and Consultants. He has a Diploma in Civil Engineering Technology from Mohawk College and is an Associate Member of OACETT. Prior to Super Sucker, Jesse spent five years with CSL Group, a contractor from the Hamilton Area, working as a Project Manager/Estimator on commercial construction projects. Previous to that he was employed as a Construction Surveyor/Inspector with Halton Region in the Business and Technical Services Department. Jesse is also actively involved with the Ontario Regional Common Ground Alliance (ORCGA), including serving as Chair of a Geographical Council.

## **MTO Online Permitting – Highway Corridor Management**

10:45 a.m. to 11:45 a.m.

*Tony Di Fabio, Ministry of Transportation (MTO)*

The Ministry of Transportation introduced its new Highway Corridor Management System (HCMS) on June 26, 2017. Clients have been enthusiastically waiting for a streamlined online permit application process. HCMS allows them to take advantage of a completely paperless system with online payments and downloadable permits. HCMS is designed to systematically take users through the permit application process with as little paperwork as possible. Users can now input relevant application data, upload supporting documents, declare authorization and submit an electronic permit application completely online. The expanded digital service also offers additional benefits to users such as online tracking of an application's status and mobile-friendly software which allows applicants to choose their device (e.g., smart phones and tablets).

### ***About the Speaker***



#### **Tony Di Fabio**

Tony has been with the Ministry of Transportation (MTO) for 23 years. Currently, Tony leads the Provincial Office's Highway Corridor Management Section where he is responsible for providing authoritative advice and guidance, technical expertise and policy development. He ensures consistent development of highway corridor control

policies, consults with industry stakeholders and leads the delivery of training and information sessions.

Tony's leadership in highway corridor management has resulted in the implementation of public service commitments and performance measures for all highway corridor management permits; improved guidelines and policies; and streamlined efficiencies across the province. More recently, Tony was the business lead responsible for modernizing MTO's Highway Corridor Management permitting system into a public-facing, customer service-oriented website.



## **OPWA ROW Management Committee and Sub-committees Presentation**

12:45 p.m. to 1 p.m.

*Steve Murphy and Lawrence Arcand, Co-Chairs, OPWA ROW Management Committee*

OPWA created a new ROW Management Committee at the end of 2016. This presentation is an update on the committee and the developing sub-committees.

### **About the Speakers**



#### **Steve Murphy**

Steve Murphy is a member of the OPWA Directors Board and Co-Chair of the OPWA ROW Management Committee. Steve has 33+ years of experience in the municipal civil engineering industry. The last 25 years he has worked for The Regional Municipality of York's Development Engineering and Corridor Control sections. Steve is also a

member of Transportation Association of Canada's Public Utilities Management Sub-committee and a past member of the CSA Z247 – Damage Prevention for the Protection of Underground Infrastructure Technical Committee and the ORCGA Best Practices Committee.



#### **Lawrence Arcand**

Lawrence Arcand is a Professional Engineer registered in five provinces across Canada. He is the President of T2 Utility Engineers. He is very active in the Utility Engineering Industry sitting on and chairing many groups, including the OPWA ROW Management Conference where he is Co-Chair with Steve Murphy.

## **Leveraging Trenchless Construction Methods for New Construction**

1 p.m. to 2 p.m.

*John Currey, Earth Boring*

In the encroaching ROW, densely packed utility corridors, and varied plant owners, trenchless construction methods provide greater flexibility in managing already congested ROWs. This presentation will highlight the advantages of trenchless construction methods for new construction with real world examples of technically challenging installations. Focus will be on methods, design considerations and the flexibility trenchless methods offer to utility owners.

### ***About the Speakers***



#### **John Currey**

A tireless proponent of trenchless efforts, John has been engaged with varied methods of underground construction since his start with Earth Boring in 1994. Earth Boring established in 1947, is a Canadian owned company with a long history in underground construction. Specializing in microtunnelling, auger boring, horizontal directional drilling

and pipe ramming, Earth Boring has built a solid reputation for delivering quality workmanship and professional service with an ‘up-front’ approach to trenchless solutions. As Operations Manager, John is responsible for all activities related to the project life-cycle, from design to construction and close-out.

# SESSIONS

1 P.M. TO 2 P.M

## After the Permit – What Happens to the Data? Managing GIS/CAD Data for Municipal Use

1 p.m. to 2 p.m.

*Charlie Lauricella, City of Hamilton*

This presentation will discuss the re-use of the utility permitting and systems data, our methods of using the actual data, and Hamilton's GIS tools for distribution of the data to the larger audience in the City.

### About the Speaker



#### Charlie Lauricella

Charlie has a Bachelor of Geography from Brock University. For the last 15 years Charlie has worked at the City of Hamilton, most recently as the Senior Project Manager of Geomatics in Public Works. Charlie's roles include the delivery of capital project engineering data, mapping systems and GIS data management. Charlie and his team develop

most of the apps that are deployed in Geomatics and his strong geographic skills have helped deliver award winning GIS process for the City.

Fill out this year's ROW Survey and win

# Free Admission

for ROW Management Conference 2018



*Congratulations to last year's winner Mauricio Saya*

# SESSIONS

1 P.M. TO 2 P.M

## Update to ASCE 38 and the Utility Engineer Profession

1 p.m. to 2 p.m.

*Jim Anspach, Cardno Inc.*

The American Society of Civil Engineers (ASCE) commissioned its 9<sup>th</sup> Institute, Utility Engineering and Surveying Institute (UESI) this year. This was in recognition and with the understanding that utilities are an integral part of our public right-of-ways and project process. ASCE the standard for utility investigation is undergoing its first major revision since 2002. This session will discuss the new institute and the update to ASCE 38.

### About the Speakers



#### Jim Anspach

Jim Anspach is a founding Governor and President of the American Society of Engineer's Utility Engineering and Surveying Institute (UESI). He is Chair Emeritus of ASCE's Codes & Standards Committee for all standards across all civil disciplines. Jim is a frequent contributor to the American Public Right of Way's ROW Committee and

activities. Jim is considered the "Father" of subsurface utility engineering and was highly involved in getting the Common Ground Alliance started in the United States. Jim has been a speaker at IRWA meetings and has been a keynote speaker for many organizations over the years. He is highly experienced in utility coordination issues and updated US State DOT practices. He frequently works on legislation and practices for managing utilities in public rights-of-way. Jim currently works at Cardno, Inc., an international environmental and civil engineering services firm.

# SESSIONS

2:30 P.M. TO 3:30 P.M

## Panel Discussion – Methods to Streamline Access to the Right-Of-Way

2:30 p.m. to 3:30 p.m.

Janis Ingram, Regional Municipality of York

Kelly Hess, City of Calgary

Tim Brown, Cogeco Connexion

Neerajah Raviraj, Enbridge Gas Distribution & Power

Ed Plant, Federation of Canadian Municipalities

Gord McGuire, Facilitator

Managing the installation of new and the maintenance of existing infrastructure in public rights-of-way has many challenging access issues. Road authorities have struggled in the past granting access to third party users of the right-of-way while managing the long-term impacts of the right-of-way to the normal use of right-of-ways. Conversely third party users of the right-of-way experience their own challenges such as receiving consent and permits in a timely fashion to meet customer demands, effective inclusion in coordinating work in the right-of-way and developing an appreciation of the different jurisdictions governing the various right-of-way users, to name a few. It is the intent of this expert panel session to discuss and educate about the various methods to streamline access to and manage the impacts of working in or adjacent to the public rights-of-way.

### About the Panelists



#### Janis Ingram

Janis has been practising law in-house with the Regional Municipality of York since 2002. In her Senior Counsel position, Janis provides legal advice to the Regional Corporation on infrastructure projects, corporate governance and risk management. Her portfolio includes projects such as the Toronto-York Spadina Subway Extension and the York Telecom Network. Janis also manages the Region's contracts with

third parties that want to access Regional lands and facilities to install their infrastructure. From 2009 to 2014, Janis was assigned to York Region's subsidiary, York Region Rapid Transit Corporation, as their in-house legal counsel and corporate secretary to the Board. During this time, Janis negotiated the master business relationship with Metrolinx regarding York Region's bus rapid transit system and provided key legal advice regarding the implementation and delivery of various rapid transit projects.

# SESSIONS

2:30 P.M. TO 3:30 P.M.

## *Panel Discussion – Methods to Streamline Access to the Right-Of-Way cont'd*



### **Kelly Hess**

Kelly has worked for the City of Calgary for 36 years. Kelly began her career with the City in property valuation in the Assessment business unit, and over the next 26 years held many leadership roles during the transition to market value and annual assessments. These major legislative changes afforded Kelly the opportunity to work collaboratively with stakeholders to ensure a smooth transition. In 2012 Kelly changed business units, moving to Infrastructure & Information Services. In 2013, Kelly happily moved into the role of Leader, Rights of Way Management Services, a group going through transition and giving Kelly the opportunity to work collaboratively to implement the change.



### **Tim Brown**

Tim Brown has twenty years' experience in the telecommunications industry and has held various management positions in planning, permitting and constructing fibre networks in Ontario for AT&T Canada, Rogers Communications and Cogeco Connexion Inc.

This experience, paired with a Commercial Real Estate background, has allowed him to specialize in negotiating agreements to obtain access to public rights-of-ways, private lands, buildings and support structures. He has negotiated dozens of Municipal Access Agreements and represented the telecom industry as a subject matter expert in several working groups.

In addition to regularly attending numerous utility coordinating committee meetings throughout Ontario, he has served terms as Treasurer, Vice-Chair and Chair of the Toronto Public Utilities Coordinating Committee (TPUCC) and chaired the Toronto's Digital Map Owners Group (DMOG). Presently he is part of Cogeco Connexion's small legal team that received the award of "Best Canadian In-House Legal Department" at the 2017 International Legal Alliance Conference held in June in New York.

# SESSIONS

2:30 P.M. TO 3:30 P.M

## *Panel Discussion – Methods to Streamline Access to the Right-Of-Way cont'd*



### **Neerajah Raviraj**

Neerajah Raviraj is currently a Planning Manager at Enbridge Gas Distribution. She joined the Energy industry after graduating from Chemical Engineering from McMaster University over a decade ago. She started her career in Oil Operations in Sarnia. After obtaining her Professional Engineering license she transitioned to the Gas Distribution side of the business and moved back home to Toronto. She worked in Engineering and Major Projects Construction before joining Planning in 2015.



### **Ed Plant**

Ed Plant is the Federation of Canadian Municipalities' Facilitator for its technical sub-committee for rights-of-way. He works with the City of Edmonton as a consultant, and is a member of the Transportation Association of Canada's Public Utilities Management Sub-committee. Ed is the Chair of the new CSA Standard, CSA Z663 Land Use Planning in the Vicinity of Pipeline Systems. He is a Technical Committee member of CSA Standard Z247 dealing with Damage Prevention for the Protection of Underground Energy and Utility Networks. He is currently the technical lead on a new project with Alberta Transportation to develop a utility co-ordination process. He works with other municipalities in Alberta and Canadian cities on policy and agreement development.

Ed graduated from technical college with an Architectural Technology diploma and has a National Advanced Certificate in Local Authority Administration from Dalhousie University/University of Alberta. Previously, he worked for structural engineering firms before working for the City of Edmonton for 33 years.

# SESSIONS

2:30 P.M. TO 3:30 P.M

## *Panel Discussion – Methods to Streamline Access to the Right-Of-Way cont'd*



### **Gord McGuire**

Gord is a licensed Ontario Land Surveyor and holds a B.Sc. in Survey Science from the University of Toronto. Gord also holds a GIS diploma from McMaster University. For the last 23 years Gord has worked at the City of Hamilton, most recently as the Manager of Geomatics within Public Works.

Gord's roles include responsibility for all utility permitting, access agreements and right-of-way policies. Through the use of technology and information management these programs have accelerated at the City under Gord's leadership. Gord has been instrumental in developing policy and remains engaged with numerous national bodies to advance right-of-way management. Last year he was a panel member reviewing the CRTC decision in the City of Hamilton. This year Gord will facilitate the panel discussion.

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## Holographic Technology Ready to Take GIS Applications to the Next Level

2:30 p.m. to 3:30 p.m.

*Alec Pestov, Meemin Inc.*

Increasingly advanced holographic technologies present new opportunities for municipalities, utility companies and pipeline operators. Different areas such as GIS, 3D mapping, VOIP communications and video streaming equipment databases are positioned to merge into a unified productivity application that will impact how municipalities, public utilities and utility service providers implement project planning and field work for maintenance, repair and infrastructure expansion.

This presentation reviews the latest in holographic visualizations and the opportunities it presents to leverage current GIS systems investments and prepare for future enhancements. Additionally, it looks at the disparate technologies that can contribute to the unified utilities management solution. The resulting system combines object holograms with object-specific data information to help field technicians understand the infrastructure they need to service while on-site, hands-free and connected to their peers and colleagues.

Given the highly visual and interactive aspects of mixed reality technology, the presentation will include video clips of different types of computer-generated visualization, examples of mixed reality-GIS integration and a hands-on demonstration of this emerging holographic utility visualization technology. It is a dynamic and highly interactive (live holograms) presentation that gives the audience a glimpse into the future of their industry, as it is expected to be five to ten years from now.

### About the Speaker



#### Alec Pestov

Alec is the Founder and CEO of Meemin, a Canadian Knowledge Management software developer. Alec has held technical and senior management roles for over 15 years within the financial services, retail and manufacturing industries. He is also an experienced entrepreneur with three previous successful startups. Alec holds an MBA degree with specialization in Macro Economics and

Strategic Management from the Schulich School of Business at York University.

# OPWA UPCOMING EVENTS

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## *Save the Dates*

**Jan. 26, 2018**  
**Annual Conference & Awards**  
Mississauga Grand  
35 Brunel Rd, Mississauga

**Jan. 29, 2018**  
**ROMA Annual Conference**  
Sheraton Centre Hotel  
123 Queen St W, Toronto

**Feb. 2, 2018**  
**Ottawa Valley Branch AGM**  
Capone's Restaurant  
2369 Carling Ave, Ottawa

**Feb. 26-Mar.1, 2018**  
**OGRA Annual Conference**  
Fairmont Royal York Hotel  
100 Front St W, Toronto

**Mar. 3, 2018**  
**West Central Branch AGM**  
Location TBD

**Apr. 23, 2018**  
**APWA Snow Conference**  
Des Moines IA

Visit <https://opwa.ca/opwa-events/>  
for more events, times and locations

# 2017 ROW MANAGEMENT CONFERENCE COMMITTEE

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## **Navy Street Charity for Persons with Disabilities**

is a charitable organization that donates portable wheelchair ramps. The goal is to help those who are disabled and need wheelchair accessible options. A portable wheelchair ramp provides individuals and their families with accessibility and inclusivity options.

Our mission is to optimize a disabled person's life and provide them with portable options regarding accessibility for the home or travel.



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- Sandra Longo, Founder | CEO

[www.navystreet.org](http://www.navystreet.org)

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