

2018

MISSION- POSSIBLE

Working together for Right-Of-Way Management



November 13, 2018
Deer Creek Golf & Banquet Facility

WELCOME FROM OPWA

On behalf of the Ontario Public Works Association (OPWA), we would like to welcome you to the 2018 Right-of-Way Management Conference. Our ROW Management Committee, consisting of volunteer Public Works professionals, have spent countless hours developing this industry relevant technical conference. There are few opportunities where all industry partners can come together to share current and upcoming technologies in the management of our public road right-of-ways.

We hope that you will find today's sessions and speakers engaging and also encourage you to take advantage of the opportunity to network with industry peers in discussing solutions to our day to day challenges in the management of our public right-of-ways.

Sincerely,



Ed Dujlovic
OPWA President



Brian Barber, P.Eng.
Executive Director,
OPWA

2018 ROW MANAGEMENT CONFERENCE COMMITTEE

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WELCOME FROM ROW MANAGEMENT CHAIRS

Welcome to the Fourth 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 2018 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.

The demand on Public road rights-of-way have increased substantially over the past decade that has resulted in competing wants and needs by the various stakeholders that use the rights-of-way for the delivery of their products. These competing demands have placed a greater importance on effective right-of-way management. This year's ROW Management Conference theme is Mission Possible: Working Together for Right-Of-Way Management. We hope that you leave the conference with fresh ideas, new contacts in the industry and new solutions to right-of-way management that supports your work and interests.

Please join us in thanking the presenters, sponsors, exhibitors and advertisers for their support of the 2018 ROW Management Conference. Through their support, the OPWA can offer this unique, affordable and engaging event. We also thank you for attending and making the conference a continued success.



Steve Murphy
Chair, 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 Breakfast	Sponsored by	
8 a.m. to 8:45 a.m.	Keynote Presentation <i>Thinking Fast and Slow in the ROW - Mission Possible Strategies to Make Room for Bike Lanes and Bioswales in a Crowded Environment</i> Robert Muir, City of Markham		
9 a.m. to 10 a.m.	Breakout Sessions <i>Utility Relocation Budgeting for Large Urban Transit Projects</i> Michael C. Paddags, York Region Rapid Transit Corporation Westney 1		
9 a.m. to 11:45 a.m.	<i>Public Utility Coordination Workshop</i> Tracey Anastacio, City of Markham Jevito Marchese, City of Mississauga Westney 2		
9 a.m. to 10 a.m.	<i>Transportation Association of Canada's Guide for Utility Coordination on P3 Projects</i> Steve Murphy, Chair, OPWA ROW Management Committee Lawrence Arcand, T2 Utility Engineers Mr. C		
10 a.m. to 10:45 a.m.	Networking Break	Sponsored by	
10:45 a.m. to 11:45 a.m.	Breakout Sessions <i>Provincial Planning Policy and ROW</i> Stephen Willis, City of Ottawa Frank J. E. Zechner, Frank J. E. Zechner Professional Corp Westney 1		
	<i>Public Utility Coordination Workshop (CONTINUED)</i> Westney 2		
	<i>Powerline Safety Statistics and Incidents</i> Patrick Falzon, ESA <i>Understanding the Rationale and Intent with Z247 Standard</i> Sat Viridi, TSSA Mr. C		

11:45 a.m. to 12:30 p.m.	<p>Lunch</p> <p>Sponsored by </p>
12:30 p.m. to 12:45 p.m.	<p><i>OPWA ROW Management Sub-committees Presentation</i> Steve Murphy, OPWA ROW Management Committee, Chair Sub-committee Chairs</p>
<p>1 p.m. to 2 p.m.</p> <p>Breakout Sessions</p>	<p><i>CSA Z663 Land Use Planning in the Vicinity of Pipeline Systems</i> Ed Plant, T.E.P. R-O-W Co-ordination Inc. Annie Thuan, City of Mississauga Westney 1</p>
	<p><i>Enbridge Crossbores</i> Jay Vanderhost, Enbridge Gas Distribution <i>Damage Prevention Regulations</i> Ann Newman, Enbridge Pipelines Inc. Westney 2</p>
	<p><i>Transportation Association of Canada's Guide for Utility Coordination on P3 Projects</i> Steve Murphy, Chair, OPWA ROW Management Committee Lawrence Arcand, T2 Utility Engineers Mr. C</p>
2 p.m. to 2:30 p.m.	<p>Networking Break</p> <p>Sponsored by </p>
<p>2:30 p.m. to 3:30 p.m.</p> <p>Breakout Sessions</p>	<p><i>Utilities and the Public Realm, Enhancement and Coordination</i> Tanya Lewinberg and John Lee, City of Markham Westney 1</p>
	<p><i>ROW Impacts: A Micro Tunneling Case Study</i> Steve Conway, GM BluePlan Engineering Limited Westney 2</p>
	<p><i>Telecom Issues in Canada – 2019 (From a Municipal Perspective)</i> Ed Plant, T.E.P. R-O-W Co-ordination Inc. Mr. C</p>

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5. **Planview Utility Services Ltd.**



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6. **T2 Utility Engineers Inc.**



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Jeremy Long
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Thinking Fast and Slow in the ROW - Mission Possible Strategies to Make Room for Bike Lanes and Bioswales in a Crowded Environment

Robert Muir, City of Markham

Challenges and opportunities in making strategic infrastructure improvements are explored in the context of ever changing and growing demands for features in a crowded right-of-way. The concept of 'Thinking Slow' with data-driven, evidence-based policies to address today's servicing challenges is illustrated with the example of Markham's Flood Control Program implementation. The issues with 'Thinking Fast', and common short-cuts in framing and solving complex problems, is also shared through the careful consideration of climate adaptation needs for expanded capacity. The benefits of applying a risk lens to refine a city's infrastructure needs and to help chart a sustainable asset management plan are also explored.



About the Kenote Speaker

Robert is the Manager of Stormwater at the City of Markham where his group within the Environmental Services Department is responsible for the planning and implementation of the City's Long-term Flood Control Program— an ambitious, quarter billion dollar strategy to improve the resiliency of older neighbourhoods to handle the effects of extreme weather. His Environmental Assets group

is also responsible for the operation and maintenance of over 100 stormwater management facilities through the City's lifecycle program. Prior to joining Markham eight years ago, Robert was a Partner at Dillon Consulting, where he practiced private consulting for 20 years. He is a member of the Ontario Society of Professional Engineers' Infrastructure Task Force and the Municipal Engineers Association's Ministry of Environment and Climate Change's liaison committee.

Utility Relocation Budgeting for Large Urban Transit Projects

Michael C. Paddags, York Region Rapid Transit Corporation

Utility relocations have become a large aspect of major transit projects' risk profile. This presentation will focus on the evolution of a utility budget methodology for P3 projects, drawing on experiences from the vivaNext Bus Rapid Transit (BRT) Projects in York Region.

On behalf of Metrolinx, York Region Rapid Transit Corporation has been mandated to deliver over 30 kilometres of new transit corridors that include modern AODA compliant stations, bike lanes, wide boulevards and many streetscape planting features; all of which would not be possible without extensive utility relocations.

This presentation will cover budgeting, Municipal Access Agreements, strategies, tools, contingencies and will conclude with a discussion on audience experiences and budgeting issues.

About the Speaker



Michael C. Paddags

Michael Paddags is a Project Manager with York Region Rapid Transit Corporation. He has 15 years experience working on infrastructure projects in both the private and public sectors. For the last four years he has been working to deliver the Yonge Street segment of Bus Rapid Transit system in York Region as part of *The Big Move*, the Metrolinx plan to reduce congestion across the GTA.

Public Utility Coordination Workshop

Tracey Anastacio, City of Markham and
Jevito Marchese, City of Mississauga

Join us for a conversation about Public Utilities Coordination. Learn about the recent Public Utility Coordination Lean event from the City of Mississauga. Discover how your colleagues are dealing with large scale utility builds and participate in a discussion period with your peers on utility coordination.

About the Speakers



Tracey Anastacio

Tracey Anastacio has over 20 years experience with utilities. She began her career with the Ingersoll Public Utility Commission, working with hydro, sewer and water. Tracey then moved to the private sector working with the Telecommunications Contractors completing Joint Use & Structures projects and managing a Municipal Consent

Permit Group. Tracey accepted the City of Markham's Utility Coordinator position in 2009 and was responsible for Utility coordination and Municipal Consent Permits. She was instrumental in migrating the permit process from paper to digital, has been 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.

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rowmanagement.ca



ROW
MANAGEMENT



Jevito Marchese

Jevito (J.J.) Marchese is the Supervisor, Maintenance Standards and Permits 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 ensures 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.

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Transportation Association of Canada's Guide for Utility Coordination on P3 Projects

Steve Murphy, Chair, OPWA ROW Management Committee

Lawrence Arcand, T2 Utility Engineers

In light of the increase in large infrastructure projects that have utilized the Public/Private/Partnership procurement model, TAC's Public Utilities Management Sub-committee has embarked on the development of a guideline that will outline a process/best practice to manage the Utility Coordination on these large scale projects. This presentation will provide an update on the status of the guideline and highlight some of the projects that have influenced its development.

About the Speakers



Steve Murphy

Steve Murphy is a member of the OPWA Directors Board and Chair of the OPWA ROW Management Committee. Steve has over 33 years experience in the municipal civil engineering industry. The last 25 years he has worked for The Regional Municipality of York's Engineering Development 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, P.Eng. is the UES Area Manager, responsible for Utility Engineering and Survey services across North America. In the US he operates under his Cardno "hat" and in Canada acts as President of "T2 Utility Engineers". Lawrence is a graduate from Queen's University in Kingston. He is member of the ASCE committee re-writing the ASCE 38-02 Standard,

member of the Executive Committee for the UESI - Utility Risk Management Division, Chair of the Transportation Association of Canada - Public Utilities Management Subcommittee, and had a lead role within OPWA, CGA and other organizations related with Utility Infrastructure.

Provincial Planning Policy and ROW

Stephen Willis, City of Ottawa

Frank J. E. Zechner, Frank J. E. Zechner Professional Corp

Planning regulations and policy in Ontario often intersect with public works and utilities/ROW. In this session we will hear from two practitioners on this topic with 'in the trenches' project case studies, details from recent reports like RCCAO's One Call and discussions with Provincial officials and association insights on current government direction concerning Places to Grow, Greenbelt and municipal legislation affecting ROW in Ontario.

About the Speakers



Stephen Willis

Stephen Willis is the General Manager of the City of Ottawa's Planning, Infrastructure and Economic Development Department. Steve is a Registered Professional Planner and Professional Land Economist with more than 20 years of experience in the public and private sectors. He has held a number of positions in the Ottawa area, including

Executive Director of the Capital Planning Branch for the National Capital Commission and positions with major multidisciplinary consulting firms.

The role involves the oversight of:

- Planning Services (including development approvals and Building Code services)
- Economic Development and Long Range Planning
- Right of Way, Heritage and Urban Design
- Infrastructure Services (design and construction of major municipal infrastructure and building projects)

Steve is responsible for increasing the City's economic viability through planning and infrastructure initiatives as well as finding economic opportunities to create new growth and prosperity in the Ottawa area. As General Manager, he is responsible for a \$102 million operating budget and a \$500 million capital budget, along with the management of risks, service delivery, organizational effectiveness and execution on major project

Frank J. E. Zechner



Frank J. E. Zechner is a sole legal practitioner in Toronto, Ontario. Frank started as a professional engineer in western Canada then studied law and was called to the Ontario Bar in 1983. Frank was in-house counsel for several major corporations over a 15-year period. In 1999 Frank established his own law practice focusing on construction and environmental law. His clients include a variety of established national and Ontario-based construction businesses as well as non-profit organizations such as the Canadian Construction Association, the Residential and Civil Construction Alliance of Ontario, the Ontario Construction Secretariat and the Ontario General Contractors Association RCCAO. Over the past 25 years Frank has written and presented many papers to the Canadian Bar Association, the Ontario Bar Association, the Law Society of Upper Canada, the Canadian Common Ground Alliance and the Association of Municipalities of Ontario. Subjects include but are not limited to, construction safety practices, management of excess construction fill, regulatory permits and approvals; due diligence investigations and defences as well as regulatory enforcement issues.

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Powerline Safety Statistics and Incidents

Patrick Falzon, ESA

Projects on public right of ways such as snow clearing, road widening, road building, replacement of underground infrastructure (water, storm and sanitary) are contracted out by the Municipalities. High reach equipment such as dump trucks, excavators and boom equipment used on these projects may cause electrical safety hazards to workers and the public. When high reach equipment comes into contact with the overhead powerlines, the equipment becomes energized causing serious injury or death to workers on the job site.

Over the past 10 years, the ESA has received over 1,300 reported contacts with overhead powerlines and approximately 750 contacts with underground electrical distribution systems. The majority of the contacts were from dump trucks in construction zones. This presentation will highlight the electrical hazards on the job site, how to identify the hazards and what can be done to stay safe.

Understanding the Rationale and Intent with Z247 Standard

Sat Viridi, TSSA

As a member of the Z247 Technical Committee, Sat Viridi will be presenting and informing the group on the changes and amendments the TSSA has submitted to the Z247 Technical Committee that will not only enhance, but clarify the Standard.



About the Speakers

Patrick Falzon

Patrick Falzon is an Electrical Technologist with the Electrical Safety Authority for 12 years. His current role is a Powerline Safety Specialist in the Powerline Safety Group.

Some responsibilities include:

- Leading the development and implementation of specific powerline safety initiatives and processes that have a positive impact on reducing powerline contacts
- Managing the public safety concern process involving utility distribution equipment
- Interpreting and applying Utility Electrical Distribution Safety Regulation 22/04
- Providing technical guidance on powerline incidents for root cause investigations

Before the ESA, Patrick worked for Enersource for 15 years. For the last nine years with Enersource, he was as an Electrical Design Technician responsible for designing the utility's overhead and underground distribution systems up to 44,000 volts.



Sat Viridi

Sat Viridi was Training and QA Manager for Consumers Gas for 12 years prior to joining TSSA. He was the Heating and Piping Superintendent for Comstock – Alberta, from 1982 to 1986 and in 1987 joined Consumers Gas as Training and QA Manager for 12 years prior to joining TSSA.

Sat was the supervisor for the Fuel Safety Program where he was assigned to manage Fuels Region #3, 15 Fuels Inspectors inspecting and investigating fuels, contractors audits, incidents, customer complaints, field approvals, public presentations to the HVACR, construction, excavation and pipeline industry. Along with Fire Departments, OFM, MOL, MOE, Municipal and Provincial Police, he was responsible for investigating and offering technical assistance in complex investigations. Investigation areas of focus include explosions, residential and commercial, industrial structures, special building program and special public events in the Greater Toronto Area including Niagara Falls Area.

OPWA ROW Management Sub-committees Presentation

Steve Murphy, OPWA ROW Management Committee, Chair

Sub-committee Chairs

About the Speaker



Steve Murphy

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

OPWA UPCOMING EVENTS - 2019



Thursday, January 24
Annual Conference & Awards
Mississauga Grand

Thursday, January 31
Ski & Snowboard Day
Osler Bluff Ski Club, Collingwood

March
International Women's Day Seminar
Mississauga Grand

March
I.T. Symposium
McMaster Innovation Park,
Hamilton, ON

May
National Public Works Week Truck Rodeo
TBD

May
OPWA Golf Tournament
TBD

Sept 8 - 11
PWX APWA Annual Conference
Seattle

For more information on upcoming events with OPWA, please visit:
opwa.ca/opwa-events/calendar

CSA Z663 Land Use Planning in the Vicinity of Pipeline Systems

Ed Plant, T.E.P. R-O-W Co-ordination Inc.

Annie Thuan, City of Mississauga

CSA Z663 Land Use Planning in the Vicinity of Pipeline Systems was published on September 21, 2018. This session will be one of the first in Canada where this Standard will be discussed. Participants will gain an understanding of what the Standard includes, the rationale behind how the Technical Committee developed this Standard, and what the Long Range Planning and Site Development recommended best practices suggest.

About the Speakers



Ed Plant

Ed grew up working in the oilfield in eastern Alberta/western Saskatchewan. Ed's 34-year municipal career was with the City of Edmonton, which included leading the Right-of-Way Management unit. Ed formed a new consulting firm called T.E.P. R-O-W Co-ordination Inc. in 2015.

He is currently the chairperson of CSA Z663 Land Use Planning in the Vicinity of Pipeline Systems – the new CSA Standard published in September 2018. He is also part of a new committee being formed by the National Energy Board, the Canadian Energy Pipeline Association, and the Federation of Canadian Municipalities to discuss the effects of pipelines on municipal operations. Since graduating from technical college in 1980 with an Architectural Technology diploma, he attended the University of Alberta/Dalhousie University and holds a National Advanced Certificate in Local Authorities Administration Level II.



Annie Thuan

Annie is the legal counsel with the City of Mississauga responsible for the environmental and Indigenous law portfolio at the City. Recognized for expertise in environmental law and Indigenous law, she is a Certified Environmental Law Specialist by the Law Society of Ontario. She has extensive experience and in-depth understanding

of varying interests from having worked in private practice and government

(provincial and municipal), and from representing industry and Indigenous communities. Called to the bars of Ontario (2005) and British Columbia (2008), Annie is a frequent speaker at conferences. She is a past Chair of the Executive of the Ontario Bar Association, Aboriginal Law Section. She also served on the Canadian Standards Association Technical Committee, Z663 Land Use Planning in the Vicinity of Pipeline Systems.

Environmental law: Provide specialist advice and solutions on all aspects of environmental law, including expertise with contaminated lands, environmental regulatory compliance and approvals and environmental issues in land use planning and development.

Indigenous law: Provide specialized advice and representation on the duty to consult and Indigenous rights and title claims, with experience working for government (B.C. and Ontario), the private sector and Indigenous communities, including Métis.

A banner for Planview Utility Services Ltd. featuring three vertical panels. The left panel shows a cross-section of soil with a colorful logo (red, blue, yellow, and orange interlocking loops) and the text 'SUBSURFACE UTILITY ENGINEERING'. The middle panel shows a map of a region with the text 'GIS SERVICES'. The right panel shows a utility pole with power lines against a blue sky and the text 'UTILITY ENGINEERING DESIGN'. The company name 'PLANVIEW Utility Services Ltd.' is prominently displayed in the center.

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Enbridge Crossbores

Jay Vanderhost, Enbridge Gas Distribution

Using rotating or water-jetting equipment to clear a blocked sewer can damage a natural gas line which has been unintentionally installed through the sewer (a crossbore). Trenchless installation technologies, which have been in use at Enbridge Gas Distribution for almost 40 years, can have the unintended consequence of unknowingly installing natural gas lines through sewer infrastructure. Sometimes crossbores are detected at the time of installation when an immediate problem is caused. However many are undetected for years. Beginning in 2011, the Technical Standards and Safety Authority (TSSA) required gas utilities in Ontario to implement a program to mitigate the risk related to natural gas lines that potentially intersected sewer lines when installed. This presentation will discuss circumstances in which crossbores are created and provide an overview of all aspects of Enbridge's sewer safety program, including our free sewer safety inspections. The benefits of participation and support from municipalities will also be discussed.

Damage Prevention Regulations

Ann Newman, Enbridge Pipelines Inc.

In 2016, The National Energy Board (NEB) introduced an updated policy for the Damage Prevention Regulations (DPR). Enbridge updated their crossing approval requirements to meet the updated regulations. Understanding the requirements of the crossing approval process will help to avoid delays in activity that will cross the NEB regulated pipeline in your area. This applies to installation of new facilities and mobile equipment crossing the right-of-way and pipeline.

About the Speakers



Jay Vanderhorst

Jay Vanderhorst is a Damage Prevention Lead at Enbridge Gas Distribution with responsibilities over locate delivery as well as the sewer safety program. Jay has been with Enbridge Gas Distribution for 11 years, with experience in various engineering and operations roles prior to joining the Damage Prevention team in 2016.



Ann Newman

Ann Newman, Supervisor of Right-of-Way Services at Enbridge Pipelines Inc., is responsible for the Eastern Region Operations, which includes Ontario and Quebec. The Right-of-Way Services department supports operations for all right-of-way activities, provides approval for construction across the Enbridge right-of-way under the National Energy

Board Damage Prevention Regulations, maintains all records for landowner and properties and supports Enbridge's Public Awareness and Damage Prevention Programs. Ann has worked in the Oil and Gas industry since 1985, the past 17 years in the Right-of-Way group at Enbridge.

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Transportation Association of Canada's Guide for Utility Coordination on P3 Projects

*Steve Murphy, Chair, OPWA ROW Management Committee
Lawrence Arcand, T2 Utility Engineers*

In light of the increase in large infrastructure projects that have utilized the Public/Private/Partnership procurement model, TAC's Public Utilities Management Sub-committee has embarked on the development of a guideline that will outline a process/best practice to manage the Utility Coordination on these large scale projects. This presentation will provide an update on the status of the guideline and highlight some of the projects that have influenced its development.

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Lawrence Arcand

Lawrence Arcand, P.Eng. is the UES Area Manager, responsible for Utility Engineering and Survey services across North America. In the US he operates under his Cardno "hat" and in Canada acts as President of "T2 Utility Engineers". Lawrence is a graduate from Queen's University in Kingston. He is member of the ASCE committee re-writing the ASCE 38-02 Standard,

member of the Executive Committee for the UESI - Utility Risk Management Division, Chair of the Transportation Association of Canada - Public Utilities Management Subcommittee, and had a lead role within OPWA, CGA and other organizations related with Utility Infrastructure.

Utilities and the Public Realm, Enhancement and Coordination

Tanya Lewinberg and John Lee, City of Markham

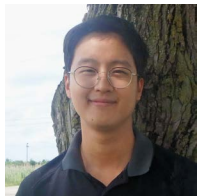
Tanya and John will conduct a two-part presentation regarding enhancement of utility infrastructure and utility coordination with trees. Tanya will discuss the City of Markham's Traffic Control Cabinet Wrapping program. The City of Markham has been wrapping traffic control cabinets since 2014. The City has created a partnership with a secondary school to create the artwork for this successful program. John will present utility coordination with trees and the best practices that utility companies can implement to avoid injuring trees that could cause future hazards. John will also present communication strategies that utility companies use to communicate with municipalities regarding their coordination affecting trees.

About the Speakers



Tanya Lewinberg

For the past two years, Tanya Lewinberg has worked as the Public Realm Coordinator for the City of Markham's Operations Department. In her current role with the City, Tanya represents the Operations Department on large-scale development projects to ensure Operations approval of projects, and works on smaller scale landscape implementation projects, to solve problems and enhance the City's public realm. Tanya has worked most of her career consulting in Toronto and Vancouver, where she had the pleasure to work on various and diverse types of projects, ranging from high-end residential to large scale subdivisions and park design. She received her training in landscape architecture from the University of Guelph.



John Lee

John Lee is one of the City of Markham's Tree Preservation Technicians. As a Tree Preservation Technician John administers the City's Tree Preservation By-law and protects the applicable trees on private property within Markham. John has a background in ecology and arboriculture from the University of Toronto and Humber College. His main interest is in urban ecosystems and the balance of human needs and nature.

ROW Impacts: A Micro Tunneling Case Study

Steve Conway, GM BluePlan Engineering Limited

The installation of new infrastructure large and small pose a significant challenge when located in existing rights-of-way. Various installation technologies can be utilized based on the project's right-of-way challenges. Micro tunnelling is one of these installation technologies. This session will discuss design and construction challenges encountered on a successful micro tunnelling project. It will also delve into coordination required with numerous stakeholders. This coordination included closing an intersection for 6 months, raising hydro and communication wires and relocating sections of gas mains, watermains and storm sewers.

About the Speakers



Steve Conway

Steve is a senior project manager with extensive experience in management of private development and infrastructure projects. His specialties include constructability reviews, trenchless and micro tunneling designs and linear infrastructure renewal including larger diameter watermain projects. Steve has been in civil engineering

and construction for his entire career, including over 30 years at GM BluePlan Engineering in Guelph. He started as a surveyor and inspector and was promoted to field services manager supervising all field work and construction from the Guelph office. Steve is currently the Branch Manager of GM BluePlan's Guelph office and an active project manager. His never ending drive and results-orientated approach has grown both the company and his own resume.



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Telecom Issues in Canada – 2019 (From a Municipal Perspective)

Ed Plant, T.E.P. R-O-W Co-ordination Inc.

Many changes are happening in the telecommunications world and in the regulatory world that oversees the Telcos. This session will highlight the impact of some recent CRTC decisions and will provide information about how municipalities are dealing with Small Cell attachments, 5G proposals and other telecommunication issues experienced by various cities across the country.

About the Speakers



Ed Plant

Ed grew up working in the oilfield in eastern Alberta/western Saskatchewan, in support of oilfield operations and pipeline provisioning. Ed's 34-year municipal career was with the City of Edmonton, mainly within the Transportation Department designing roads and interchanges, working with the development industry implementing subdivision growth and then leading the Right-of-Way Management unit. Ed formed a new consulting firm called T.E.P. R-O-W Co-ordination Inc. in 2015. He is the Federation of Canadian Municipalities' facilitator on telecommunication issues, prepares discussion papers based on his research and arranges conference calls with the representatives from municipalities across Canada on a regular basis.

Since graduating from technical college in 1980 with an Architectural Technology diploma, he attended the University of Alberta/Dalhousie University and holds a National Advanced Certificate in Local Authorities Administration Level II.

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