THE FUTURE IS IN YOUR



Time to Talk

- 2019 OPWA ROW Management Conference
 - Deer Creek Golf & Banquet Facility Wednesday, October 30, 2019

Welcome From OPWA

On behalf of the Ontario Public Works Association (OPWA), we would like to welcome you to the 2019 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,



Angela Storey OPWA President



Brian Barber, P.Eng. Executive Director, OPWA

2019 ROW Management Conference Committee

Steve Murphy York Region

Tracey Anastacio City of Markham

Caroline Berryman York Region

Saffron Davis, York Region Jerusha Sorrento York Region

Sarah de Schulthess York Region

Barry Mulcahy Region of Peel

Pamela Callow Enbridge Khaled Chowdhury City of Toronto

Andrew Macklin Actual Media

Lori O'Doherty Event Planner

Welcome from ROW Management Chairs

Welcome to the Fifth Annual Right of Way Management Conference!

On behalf of the Ontario Public Works Association, Right of Way (ROW) Management Committee and Conference Coordination Subcommittee, we welcome you to the 2019 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.

What will our future cities, suburbs, and towns look like to accommodate new technologies that are developed and install in the Municipal ROW. Will there be a change to the landscape on how to manage this new infrastructure. This year's ROW Management Conference theme is The Future is in Your ROW: Time to Talk. 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 2019 ROW Management Conference. Through their support the OPWA can offer this unique, affordable and engaging event. We also thank you for attending and the making the conference a continued success.

Sincerely,



Tracey Anastacio, Chair OPWA ROW Management Committee



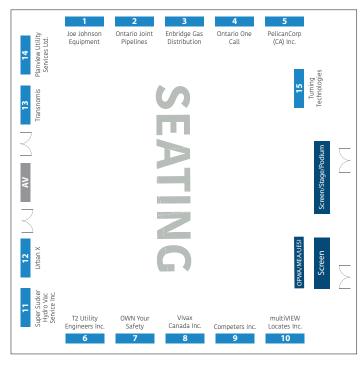
Steve Murphy, Chair, OPWA ROW Management Conference Coordination Subcommittee

2019 ROW Conference Agenda

7 a.m. to 8 a.m.	Registration Exhibitor Displays Open Breakfast	Sponsored by	PLANVIEW Utility Services Ltd.
8 a.m. to 8:45 a.m.	From Smart City ROW Infrastructure to Intelligent Communities in Ontario John Jung, Intelligent Community Forum		
ot on to on	Utility Coordination What a Utility Needs to Successfully Relocate Mark Cavanaugh, T2 Utility Engineers Westney 1		
	Broadcasting and Telecommunications Act Legislative Review Ed Plant, T.E.P. R-O-W Co-ordination Inc. Mr. C		
	Outdoor Advertising Leveraging GIS and Workflow Management Tanya Camacho, GISP, CARDNO Craig Payne, CARDNO Westney 2		
10 a.m. to 10:45 a.m.	Networking Break	Sponsored by	OWN YOUR SAFETY. KNOW Before You Dig!
Breakout Sessions	American Society of Civil Engineers Standard 38 (ASCE 38) Lawrence Arcand, T2 Utility Engineers Mr. C		
	What the dickens is an Municipal Access Agreement? Tracey Anastacio, City of Markham Ed Plant, T.E.P. R-O-W Co-ordination Inc. Westney 1		
	Dedicated Locator <i>Mike McGivery, Enbridge Gas Inc. Westney 2</i>		
11:45 a.m. to 12:30 p.m.	Lunch	Sponsored by	Bell

12:30 p.m. to 12:45 p.m.	Acknowledgment Awards and Turning Technologies Questions & Trivia		
	Suction Excavation An Alternative Approach to Vacuum Excavation in the Right of Way Jared Lindeboom, OX Equipment Mr. C		
Breakout Sessions	5G and Small Cell Deployment and Implementation Merits and Challenges - Panel Discussion Part 1 Overview: Jason Valtas, Telecommunication Program Coordinator, York Region Panel: John La Chapelle, Facilitator, York Region Brian O'Gay, Alectra Utilities Linda Carkner, City of Ottawa Michael Piaskoski, Rogers Communications Janis Ingram, York Region Westney 1		
	Roundabouts Dave Hallman, MTE Consultants Inc. Westney 2		
2 p.m. to 2:30 p.m.	Networking Break Sponsored by Renew The Infrarractive Magazine		
Breakout Sessions	5G and Small Cell Deployment and Implementation The Hanging Regulatory and Technical Landscape - Panel Discussion Part 2 Panel: John La Chapelle, Facilitator, York Region Brian O'Gay, Alectra Utilities Linda Carkner, City of Ottawa Michael Piaskoski, Rogers Communications Janis Ingram, York Region Westney 1		
Bre	Low Impact Development A Natural Fit for Road Runoff Jennifer Young, P.Eng, Green Infrastructure Sector Leader, Stantec Westney 2		

Floor Plan and Exhibitor Directory







1. Joe Johnson Equipment Jeff Johnson 2521 Bowman Street Innisfil, ON L9S 3V6 p: (705) 733-7700 e: marketing@jjei.com

2. Ontario Joint Pipelines Gretchen Gordon

86 Healey Road, Bolton, ON L7E 5A7 p: (905) 951-4336

e: gretchen.gordon@transcanada.com

w: transcanada.com





PelicanCorp





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 NIC 0A4

p: 1 (844) 257-9490 ext 8806

e: jhitchcock@on1call.com

w: onlcall.com

5. PelicanCorp (CA) Inc.

Ricardo Mahoney 2960, boul. Laurier, Suite 120 Québec, QC, GIV 4S1

p: (418) 948-1314 Ext. 300

e: ricardo.mahoney@pelicancorp.com

w: pelicancorp.com

6. T2 Utility Engineers Inc.

Lawrence Arcand 330-C-04 Taunton Road East Whitby, ON LIR 0H4

p: (905) 668-8822

e: lawrence.arcand@t2ue.com

w: t2ue.com

7. OWN Your Safety

Grant Piraine 16715-195 Yonge Street Newmarket, ON L3X 1X4

p: 1 (800) 381-8802

e: grant.piraine@ownyoursafety.com

w: ownyoursafety.com





Jeremy Long 41-6 Courtland Avenue Concord, ON L4K 3T3

p: (289) 846-3010

e: jeremy.long@vxmt.com

w: vivax-metrotech.com



9. Competers Inc.

Shane Hart 46 Bushmills Crescent Guelph, ON NIK 1T7

p: (226) 338-8906

e: shaneh@competers.com

w: competers.com



10. multiVIEW Locates Inc.

Amanda Graff 325 Matheson Boulevard East Mississauga, ON L4Z IX8 p: 1 (800) 363-3116

e: info@multiview.ca

w: multiview.ca



11. Super Sucker Hydro Vac Service Inc.

James Stieva 680-11B Tradewind Drive Ancaster, ON L9G 4V5

p:1 (866) 227-7722

e: james.stieva@supersucker.ca

w: supersucker.ca



12. Urban-X

John Scaife 151 Superior Boulevard, Unit 1 Mississauga, ON L5T 2L1

p: 1 (844) 787-2269

e: jscaife@urban-x.ca

w: urban-x.ca













13. Transnomis

Simon Foo, Ph.D., P.Eng.

p: (416) 788 2812

e: simon@transnomis.com

w: transnomis.com

14. Planview Utility Services Ltd.

Natalie Ashworth 7270–201 Woodbine Avenue Markham, ON L3R 4B9 p: (416) 419–9583

e: natalie.ashworth@planview.ca

w: planview.ca

15. Turning Technologies

Laura Zawadiuk 35 Cedar Pointe Drive, Ste 39 Barrie, ON L4N 5R7 p: (705) 726-8876 Ext. 214 e: info@turningtechnologies.ca w: turningtechnologies.ca

Associations

Municipal Engineers Association

D.M. (Dan) Cozzi P.Eng, 1525-22 Cornwall Road Oakville, ON L6J 0B2 p: 289-291-6472

f: 289-291-6477

w: municipalengineers.on.ca

Ontario Public Works Association

1525-22 Cornwall Road Oakville, ON L6J 0B2

p: 647-726-0167

e: info@opwa.ca

w: opwa.ca

UESI ONT-GTA Chapter

Kate Cheng

p: 647-607-2620

e: ontario.uesi@gmail.com

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Keynote Address

From Smart City ROW Infrastructure to Intelligent Communities in Ontario

Time | 8 a.m. to 8:45 a.m.

Given the major disruptions and challenges today such as globalization, climate change, urbanization and technological transformation, what can communities do to contribute positively to this transformation? It is hard for communities on the ground to get their heads (and hands) around these very big issues and challenges. Nevertheless,



John Jung, Chairman and Co-Founder, Intelligent Community Forum, (Global HQ, New York)

there are many ways in which people, municipalities, companies and organizations can make a positive impact. But it requires enabling technologies that often need the expertise of ROW and related specialists to be in the picture. This session will focus on how smart city infrastructure is evolving communities and how it is possible for them to transform from smart cities to "Intelligent Communities". Case studies from Canadian and global examples will inform and inspire attendees to consider how their work in ROW infrastructure can lead their communities to not only become smart, but also transform to become intelligent.

John Jung

Intelligent Community Forum & ICF Canada

John Jung is the Chairman and Co-Founder of the Intelligent Community Forum (ICF), which was formed over two decades ago. He is also the Smart City Expert in Residence at the Institute without Borders in Toronto and Executive Director of ICF-Canada. He was former President and CEO of several large economic development organizations in Canada and an urban planner and designer involved in major projects such as Cyberport in Hong Kong, Aerotropolis in Taiwan and in Toronto's Waterfront. He was involved with the Smart Cities Challenge in Canada, Future Cities Canada and the Community Solutions Network. He is an advisor to ICF's Institutes globally and speaks at conferences, Ted Talks, APEC and Global Forums. He writes for global publications such as MyLiveableCity and Public Sector Digest; and is author and co-author of reports, books and articles widely read on these topics, including ICF's Brain Gain and a new book coming out soon called Innovative Solutions for Creating Sustainable Cities (Cambridge Scholars, UK).

Utility CoordinationWhat a Utility Needs to Successfully Relocate

Time | 9 a.m. to 10 a.m. Room | Westney 1



Mark Cavanaugh, Manager, Utility Coordination and Design Services, T2 Utility Engineers

A Municipal contract will have one Prime or Lead Consultant that prepares a detailed design to a given client standard, however each utility involved will also have their own design standards and considerations that must be addressed to perform a relocation design successfully. This presentation will review the information exchange required for a successful utility relocation process.

Mark Cavanaugh

Manager, Utility Coordination and Design Services, T2 Utility Engineers

Mark has more than 17 years of professional experience working on various types of Municipal/Regional Road improvements, Rail and Light Rail Transit, Subway builds, and large scale development projects. He is responsible for reviewing proposed infrastructure improvement projects to determine potential utility impacts that may be created, and working with project stakeholders to ensure resolutions are delivered in a timely and budget friendly manner.

Broadcasting and Telecommunications Act Legislative Review

Time | 9 a.m. to 10 a.m.

Room | Mr. C



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

The federal government is in the midst of a Broadcasting Act and Telecommunications Act Legislative Review. Many municipalities have provided input for the review. Numerous telecommunication companies, Internet Service Providers, and interested parties also submitted their views.

The Legislative Review Panel will have published the submissions by the time of the conference, but their final report is not due until January 2020. What might the impacts be? What is being considered? How will this affect your work, and your life? This session proposes to answer those questions, either directly or indirectly.

Ed Plant

T.E.P. R-O-W Co-ordination Inc.

Ed was with the City of Edmonton for 34 years, mainly with the Transportation Department in roadway design, to work with the development industry, and then to lead the Right-of-Way Management unit. Ed formed his consulting firm T.E.P. R-O-W Co-ordination Inc. in 2015. He is a technical advisor to the FCM's Right-of-Way Technical Committee and is one of the few Canadian members of the APWA's Utilities and Public Right-of-Way sub-committee. Since graduating 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.

Outdoor AdvertisingLeveraging GIS and Workflow Management

Time | 9 a.m. to 10 a.m. Room | Westney 2







Craig Payne, GISP, CARDNO

Agencies have the legal authority to regulate signs along their federally aided highway systems. However, increasing financial constraints force agencies to find more efficient ways to assess the condition of assets along the ROW, perform permitting workflow management, and enforce these regulations.

Tanya Camacho, GISP CARDNO

Tanya Camacho is a GIS Professional, Asset Management Business Analyst and Software Implementer. Tanya is an integral member of Cardno's Geospatial Services and Asset Management Team and has more than 10 years of experience interfacing with clients, evaluating their operational needs and streamlining their business processes and workflows. Her experience with GIS, Asset Management and Workflow Management spans numerous applications including Utilities, Outdoor Advertising, Transportation and Environmental Services.

Craig Payne, GISP CARDNO

Craig Payne is a GIS Professional, Asset Management Business Analyst and Software Implementer. Craig manages the Geospatial Services and Asset Management Team at Cardno which includes GIS professionals, software developers, and software implementers. With 30 plus years experience, he is immersed in the industry and has developed solutions for Asset Management, Outdoor Advertising, Utilities, Transportation, Environmental Services, and more.

American Society of Civil Engineers Standard 38 (ASCE 38)

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

Room | Mr. C



Lawrence Arcand, President, T2 Utility Engineers

Lawrence will be presenting the upcoming release of the rewrite of the ASCE 38 as well as the accompanying standards SUE specifications for Municipalities and Right of way owners and how these documents tie into the existing TAC guidelines.

Lawrence Arcand

President, T2 Utility Engineers

Lawrence Arcand, P.Eng. is the President of T2 Utility Engineers. He is a graduate from Queen's University in Kingston, Ontario, Canada. Lawrence is Co-Chair of the Transportation Association of Canada - Public Utilities Management Subcommittee, is Vice-Chair of the CSA S250 update Committee to review the Canadian Utility Mapping Standard – CSA S250-11, a member of the current ASCE committee re-writing the ASCE 38-02 Standard, and sits on the board of directors for the Utility Engineering and Survey Institute of ASCE.

What the dickens is an Municipal Access Agreement?

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

Room | Westney 1



Tracey Anastacio, Utilities Co-ordinator, Survey & Utilities Group, City of Markham



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

Come discuss what an

MAA is, learn about it's evolution,
the key components and leave with an outline for an MAA.

Tracey Anastacio

Utilities Co-ordinator, Survey & Utilities Group, City of Markham

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, 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 is proud to have started the Right of Way Management Conference with Steve Murphy's help.

Ed Plant

T.E.P. R-O-W Co-ordination Inc.

Ed was with the City of Edmonton for 34 years, mainly with the Transportation Department in roadway design, to work with the development industry, and then to lead the Right-of-Way Management unit. Ed formed his consulting firm T.E.P. R-O-W Co-ordination Inc. in 2015. He is a technical advisor to the FCM's Right-of-Way Technical Committee and is one of the few Canadian members of the APWA's Utilities and Public Right-of-Way sub-committee. Since graduating 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.

Dedicated Locator

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

Room | Westney 2



Mike McGivery, Manager, Distribution Protection, Enbridge Gas Inc.

The session will review an innovated solution to industry-wide challenges with delivering accurate and timely locates for large capital infrastructure projects. The model involves infrastructure owners taking accountability for locates associated with their own capital projects with the ability to better manage projects delays, lost time and inefficiencies. It is a model that was first piloted in the City of Toronto during the 2017 construction season.

Mike McGivery

Manager, Distribution Protection, Enbridge Gas Inc.

Mike McGivery is the Manager, Distribution Protection at Enbridge Gas Inc. He is accountable for the company's Damage Prevention, Corrosion and Leak Survey Programs throughout the Province. Damage Prevention Programs include oversight of the Locate Service Providers, Aerial Patrols, Sewer Safety, and Vital Main Standby's.

Mike McGivery has held various positions at Enbridge which includes Planning, Major Projects, Integrity, and Operations. He has been active in the natural gas industry for over 17 years, and he has received a B.Comm. Degree from Ryerson University and a MBA from Clarkson University.

Suction Excavation

An Alternative Approach to Vacuum Excavation in the Right of Way

Time | 1 p.m. to 2 p.m.

Room | Mr. C



Jared Lindeboom, Sales Representative & Field Operations Expert, OX Equipment

Vacuum excavation has been developing over the past several years to discover alternative approaches for this technology. Disposal issues, congestion, soil recycling and more recently tree root preservation has propelled this solution forward. We would like to present our findings and discuss how we see this technology fitting into as a viable resource for municipalities, utilities, and contractors.

Jared Lindeboom

Sales Representative & Field Operations Expert, OX Equipment

Mr. Jared Lindeboom joined OX equipment in 2018 as a sales representative and field operations specialist for the MTS Suction excavation program in Canada. Jared's background and expertise are in commercial construction, starting his career as an apprentice and working his way into construction management roles, ultimately working as a Site Superintendent in the greater Toronto Area. Jared gained knowledge of the utility industry and its challenges from his regular dealings with utility providers, excavation contractors and vacuum service providers, and brings a "hands-on" approach to his role at Ox Equipment.

5G and Small Cell Deployment and Implementation

Merits and Challenges

Panel Discussion Part 1

Time | 1 p.m. to 2 p.m. Room | Westney 1

What is 5G? Why do we need it? How will it be deployed? What are Small Cells? What role do they play in the delivery of future telecommunications? These questions along with others regarding 5G and Small Cell telecommunication technologies will be presented and discussed at this two part session. Come join us to find out more about 5G and Small Cells both the practical and technical aspects as how it works and why it is the future in telecommunications. Listen to a panel comprised of industry and municipal experts discuss the merits and challenges of 5G/Small Cells in relation to ROW Management. You are sure to walk away with a greater understanding and appreciation of these new telecommunication technologies.

Overview



Technical Presenter, Jason Valtas, C.E.T., C.W.A. Telecommunication Program Coordinator, Regional Municipality of York

Facilitator



John La Chapelle, Regional Municipality of York

Panel



Brian O'Gay, C.E.T., Supervisor, Joint Use & Agreements, Alectra Utilities

Panel



Janis Ingram, Senior Counsel, Infrastructure, Regional Municipality of York

Panel



Linda Carkner, Program Manager, Right of Way, City of Ottawa

Panel



Michael Piaskoski, Director, Municipal & Industry Relations, Rogers Communications

Jason Valtas, C.E.T., C.W.A.

Telecommunication Program Coordinator, Regional Municipality of York

Jason has been working at York Region for over 13 years as a Telecommunication Program Coordinator. Jason has private industry experience working in research and development for the oil and gas pipeline industry and other manufacturing sectors. Working Initially at York Region in an Asset Management capacity for water and wastewater



facilities and linear infrastructure, Jason then migrated into the role of managing York Region's Telecommunication Program for accommodation of both private and public wireless telecommunication installations on Regional lands, facilities, and Community Housing properties. Jason has done extensive work to research and develop the Region's Telecom program and policy in preparation for the advent of 5G technology and to support the Region's Proadband Strategy.

John La Chapelle

Regional Municipality of York

John La Chapelle has a multidisciplinary career spanning over 24 years in municipal planning, engineering, consulting and corporate municipal relations. John joined the Regional Municipality of York in 2017 leading the Corridor Control section and spent the previous 12 years with Bell Canada leading municipal relations in Ontario. John is past chair of the City of Toronto Public Utility Coordinating Committee (TPUCC), a member of the Transportation Association of Canada's Public

Utilities Management Sub-Committee, a member of the Canadian Institute of Planners and a Registered Professional Planner in Ontario.

Brian O'Gay

Supervisor, Joint Use & Agreements, Alectra Utilities

Brian graduated from the Civil Engineering Technology program at Cabot College in St. John's, NL in 1993. He worked in various civil roles in the public and private sectors before joining the communications field designing and project managing construction of cable and fiber optic systems



across Newfoundland and Labrador. Upon moving to Ontario in 2002, Brian returned to working in the civil field performing design and inspection roles on water, sewer, and roads projects in Simcoe County before joining Alectra's legacy PowerStream in 2006. In his initial roles, Brian's group was responsible for all customer-initiated relocation design work including road authorities and private customers as well as review and approval of third party attachments to Alectra's poles in York Region and Simcoe County. With the formation of Alectra (a merger of PowerStream, Enersource in Mississauga, Horizon in Hamilton, and Hydro One Brampton), Brian's new group now focuses on joint use and third party attachment matters across all of Alectra's service territory. Brian has been involved with the OPWA and utility relocations since 2011 and remains a huge advocate for cooperative relationships between utilities and municipalities.

Janis Ingram Senior Counsel, Infrastructure, Regional Municipality of York

Janis is a lawyer in York Region's Legal Department. Janis' practice includes advising Regional departments on capital infrastructure projects and operations, focusing primarily on transportation and telecommunications projects. During



her 15+ years with the Region, Janis has provided corporate governance advice to the Region's three municipal corporations. From 2009 to 2014, Janis was inhouse counsel to York Region Rapid Transit Corporation which is responsible for delivering the vivaNext bus rapid transit project. Currently, Janis provides legal support and advice to YorkNet, whose mandate is to expand the York Telecom Network across York Region.

Linda Carkner Program Manager, Right of Way, City of Ottawa

Linda is a Professional Engineer with over 30 years of experience in the Municipal sector in Ontario. She began her career in the City of Windsor, working with both the Windsor Utilities Commission and the City of Windsor. Linda has also worked in the area of construction risk management for construction projects garges the country. Linda has been



for construction projects across the country. Linda has been with the City of Ottawa since 2002 in the role of Program Manager of Right of Way dealing with utility coordination and approvals as well as permitting. During that time Linda has been the Chair of the Ottawa Utility Coordinating Committee, has been active with the Federation of Canadian Municipalities – Telecommunications Subcommittee and has been on the Board of Directors for the Ontario Regional Common Ground Alliance.

Michael Piaskoski Director, Municipal & Industry Relations, Rogers Communications

Michael Piaskoski, a lawyer and an engineer, holds the title of Director – Municipal & Industry Relations at Rogers

Communications. In his role, Michael is responsible for managing the commercial relationships between Rogers and the municipalities, governmental authorities, hydro companies and telecom carriers where Rogers requires access to build its network, whether wireline or wireless. He has successfully negotiated numerous access agreements with municipalities and infrastructure owners across Canada, allowing Rogers to deploy and upgrade its

Michael joined Rogers in 2007. Prior to that, he spent 12 years in private legal practice at two of Canada's largest law firms. His practice focused on the telecommunications industry, during which he served a broad range of clients, including the telephone companies, their competitors, wireless and satellite companies, cable companies and broadcasters. His legal expertise includes competition law, telecommunications and broadcasting regulatory law and commercial law.

national plant.

Roundabouts

Time | 1 p.m. to 2 p.m. Room | Westney 2



Dave Hallman, Senior Project Advisor, MTE Consultants Inc.

The use of roundabouts is gaining momentum in municipalities as they are very effective at moving traffic safely while increasing intersection capacity. This presentation will provide information on when roundabouts should be considered versus a traditional intersection design. The volumes and characteristics needed for a roundabout to perform effectively will be explained. The key parts of a roundabout and their function will be outlined, including dedicated lanes to accommodate turning movements when required. Effective ways to alter a roundabout design to avoid land impacts will be illustrated through past project examples. Information will also be provided on construction traffic staging to provide for uninterrupted use of the road during construction. Finally, examples of pavement marking and signage will be presented to promote the safe and effective use of the roundabout by all users including different size vehicles and pedestrians.

Dave Hallman Senior Project Advisor, MTE Consultants Inc.

Dave Hallman, P. Eng., formerly Vice President of MTE's Municipal and Geomatics Divisions, graduated from Conestoga College and the University of Waterloo. Dave has worked on the planning, design and construction of over 20 roundabouts. His 25 years in consulting engineering experience is supplemented with an additional two years as a contractor and 11 years with the Region of Waterloo. This multi-faceted experience provides him with a unique and broad perspective on the issues faced by owners, designers and contractors. He believes collaboration, consultation and communication are key to delivering successful projects for both the community and stakeholders.

5G and Small Cell Deployment and Implementation

The Hanging Regulatory and Technical Landscape

Panel Discussion Part 2

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

Room | Westney 1

Panel Discussion Continued: What is 5G? Why do we need it? How will it be deployed? What are Small Cells? What role do they play in the delivery of future telecommunications?

Overview



Technical Presenter, Jason Valtas, C.E.T., C.W.A. Telecommunication Program Coordinator, Regional Municipality of York

Facilitator



John La Chapelle, Regional Municipality of York

Panel



Brian O'Gay, C.E.T., Supervisor, Joint Use & Agreements, Alectra Utilities

Panel



Janis Ingram, Senior Counsel, Infrastructure , Regional Municipality of York

Panel



Linda Carkner, Program Manager, Right of Way, City of Ottawa

Panel



Michael Piaskoski, Director, Municipal & Industry Relations, Rogers Communications

Low Impact DevelopmentA Natural Fit for Road Runoff

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

Room | Westney 2

This presentation will provide an introduction to Low Impact Development (LID), as well as the best practices to use in road rights-of-way (ROWs) for both new and retrofit scenarios. The presentation will also discuss



Jennifer Young, P.Eng Green Infrastructure Sector Leader, Community Development -Canada, Stantec

some of the challenges involved in LID implementation for ROWs, such as fitting practices into limited space, utility conflicts, pre-treatment, maintenance, winter operation, and construction phasing. The presentation will provide several examples of successful LID installations from various jurisdictions, including how some of the challenges were overcome on each installation.

Jennifer Young, P.Eng

Green Infrastructure Sector Leader, Community Development - Canada Stantec

Jennifer Young has 14 years consulting experience specializing in low impact development (LID), green infrastructure, Integrated Stormwater Management Plans (ISMP). She has extensive experience in scoping, design, construction and inspection, and monitoring of LID facilities, including road side and retrofit LID applications. She has completed many projects across Canada and has extensive knowledge of the challenges involved in LID design and construction.

Jennifer has assisted with drafting of bylaws, standards, specifications and typical drawings for stormwater green infrastructure including the City of Abbotsford Industrial Lands Source Control Bylaw and typical on-lot and roadside source control examples and standards for the municipalities of Burnaby and Abbotsford. She has also been involved in the design and construction .

MEA WORKSHOP AND ANNUAL GENERAL MEETING

20 ALL SEASOLATION AND ANNUAL GENERAL WEIGHT

November 26th to 29th, 2019 Blue Mountain Village South Georgian Bay



The Ontario Public Works Association's ROW Management Committee and Subcommittees are seeking industry volunteers to help shape the future of ROW Management in Ontario.

Join a committee below:

ROW Management Committee
Tracey Anastacio | TAnastacio@markham.ca

ROW Management Conference Subcommittee Steve Murphy | Steve Murphy@york.ca

Public Utility Coordination Management Subcommittee
Jevito Marchese | Jevito.Marchese@mississauga.ca

Permits Subcommittee

Darlene Robertson-Bootsma | Darlene Robertson-Bootsma@york.ca

Data Intelligence and Information Sharing SubcommitteePraful Mistry | Praful.Mistry@richmondhill.ca

Environmental Subcommittee
Stefanie Thorne | Stefanie.Thorne@simcoe.ca



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