Speaker Biographies and Abstracts
Wednesday November 28, 2018

Presentation Title: Integrating best practices in asset management planning and funding
Presented by: Andy Wardell, District of North Vancouver

Andy has over 30 years of senior management experience in transportation, healthcare and government including finance, planning, corporate services, business development, asset management, mergers and organizational change management.

Andy is currently the Acting General Manager, Finance and Technology/CFO at the District of North Vancouver, Co-Chairs the District’s Asset Management Steering Committee and is Co-Chair of Asset Management BC. Andy also represents local government on the Chartered Professional Accountants of BC’s Government Organizations Accounting and Auditing Forum.

Andy is a graduate of BCIT, a CPA-CGA and holds a Masters Degree in Leadership and Training from Royal Roads University.

Abstract:

This presentation will cover the historical context on Canadian infrastructure, Asset Management BC’s work as a community of practice, the integration of best practices across the professions, financial planning and funding and performance measures that track progress toward service, asset and financial sustainability.
Presentation Title: Asset Management Policy for Water Utilities
Presented by: Jude Pillainayagam, City of Coquitlam

Jude Pillainayagam is a senior engineer working in the municipal engineering sector for over 20 years, including at the Metro Vancouver, City of Surrey and currently works as the Asset Management Engineer at the City of Coquitlam. Jude possesses a diverse educational background and experience. Jude is also an accountant, a marketing professional, a certified computer / Information System Professional and holds an MBA. He is a member of the CNAM and the Institute of Asset Management, UK. He has presented in many professional conferences including BCWWA, CNAM, and other Asset Management conferences.

Presented by:  Kingsley Blease, Pure Technologies Ltd.
Ryan Lesyshen, Kerr Wood Leidal

Mr. Kingsley Blease is a professional engineer with 40 years of experience in water and wastewater projects, in both Canada and the United Kingdom. Kingsley has worked for many years in both the public and private sectors of the Water industry. He has considerable experience over the last 35 years with Water Loss Management. Kingsley operated the water supply system of a major city for six years, including implementing leakage control, and also several years’ experience developing and using water distribution network models. In addition, he has 5 years directing water meter AMR and AMI projects.

Kingsley was the founding member and first chair of the Ontario Water Works Association Water Efficiency Committee. He has delivered many workshops and webinars on Water Loss Management, both in Ontario and the Atlantic Provinces.

Ryan is a consulting infrastructure engineer with Kerr Wood Leidal with specialized expertise in water and sewer condition assessment, and water loss management. His M.Sc. research in water distribution loss reduction is complemented by highly effective, practical program development, training and implementation of asset management for municipal utilities.

Ryan worked for two years in New Zealand where he implemented water loss management practices including leak detection, pressure management and auditing. Ryan’s work in BC in the past 11 years has included numerous water loss management plans, pressure management planning, water audits, watermain condition and risk assessments and metering studies as well as numerous sewer and drain condition assessment and I&I reduction projects.

Abstract:

The workshop will provide a comprehensive approach to managing aging infrastructure and lowering water loss. All water utilities have Non-Revenue Water (NRW) associated with aging infrastructures, but most have limited resources to tackle the problem. The workshop will demonstrate how NRW can be identified and reduced, in a cost effective and environmentally friendly manner.

By the end of the workshop, attendees will learn how to deal with aging infrastructure, and understand the benefits of reducing NRW. Participants will see how to complete a water balance of their system, understand the four pillars of leakage reduction, and how to identify and reduce customer meter under-registration.
Workshop: A Holistic Approach to Private Side Inflow and Infiltration

Presented by: Joanne Slazyk, District of North Vancouver
Ron Weismiller, City of Burnaby

Joanne Slazyk is a Senior Project Engineer with the District of North Vancouver. At the moment her focus is on open watercourses, debris flow hazard mitigation, and drainage infrastructure, but she spent the last five years in the District’s Utilities Department repairing sanitary sewers and trying to combat Inflow and Infiltration. She figures this was enough time to leave her a little jaded but not too long for her to lose her passion for municipal infrastructure.

Ron Weismiller, P.Eng. - is Senior Operations Engineer for Water & Sewer, at the City of Burnaby
Ron has responsibilities including both water and sewer system strategic planning, capital program and budget development, leading asset management initiatives, design reviews and contract administration. He has been focused on sewer system renewal and rehabilitation program development, condition and I&I assessments, computer modelling, and maintenance planning, for the last fifteen years. In his work, he supports both the Public Works and Infrastructure Services Divisions, at Burnaby, making strides in resolving utility related issues, providing innovative and sustainable solutions for the delivery of engineering services and acted as technical resource and coach for staff.

Abstract:

Inflow and Infiltration in any community comes in two forms: public-side I&I and private-side I&I.

Municipalities often struggle with how to combat private-side inflow and infiltration (we certainly did). Eventually we came to the realization that, for us, fixing public-side I&I without addressing private-side I&I was like burying money in the ground; we were only scratching the surface of the problem. We knew that private I&I was a huge contributor, but we hadn’t even been able to quantify it. We were plagued with the question, “How do we go there?”

As engineers, we often like to keep our heads down, do our thing, and make as little noise as possible. Telling people we were going to rip up their yards and getting the internal stakeholder buy-in to do it is noisy! We tooted our horns and charged ahead at full speed. We only cracked the surface of private-side inflow and infiltration in the District, but we were able to develop the tools and strategy to go there.
Presentation Title: Liquid Waste Management at Metro Vancouver

Presented by: Robert Hicks, Metro Vancouver
Presentation Title: Large and Critical Valve Assessments and Rehabilitation
Presented by: Justin Hebner, Pure Technologies

Justin is the Western Canadian Business Development Manager for Pure Technologies, where he is responsible for growing the demand for Pure’s pipeline condition assessment services. He has over 10 years of experience in the water/wastewater industry. He studied mechanical design at BCIT prior to joining a wastewater treatment process company.
Presentation Title: Addressing Private Property I&I: Lessons Learned

Presented by: James McAloon, CRD

James McAloon has a B.Sc. and works as an engineering technician for the CRD. For the last 13 years, his work has focused on the topic of I&I.

Abstract:

Addressing private property I&I is challenging. Currently, only a small number of municipalities have “strong” private property I&I reduction programs. Each of these municipalities is in the USA and they were forced to implement the programs by regulators. All other attempts to implement “strong” approaches have failed due to the high cost of fixing laterals (i.e. $1,500 – 5,000 per lateral) and the massive amount of political will that these programs require.

For a number of years, the CRD attempted to “hit a home run” and voluntarily implement a strong private property I&I reduction program. This included commissioning option reports from the USA and Canada, workshops for politicians and municipal staff and significant efforts working with experts in the field. However, like everywhere else, cost and lack of the required political will prevented the voluntary implementation of such a program.

Starting in 2016, the CRD took a different approach to the issue; an incremental approach. This approach focusses on creating a strong foundation and addressing the “low hanging fruit” with regards to private property I&I. To date, this approach has included projects to unify stakeholder consensus on the issue nationally, develop bylaw language; create a “homeowner centric” education approach, and developing I&I benchmarks for use nationally. Future efforts will incrementally continue to build upon this work.

Note: the Capital Regional District’s member municipalities are expected to meet their Liquid Waste Management Plan I&I commitments, which may include adoption of “strong” private property I&I programs already identified in CRD reports.
Presentation Title: Watermain CIPP lining
Presented by: Luc Lupien, FER-PAL

Luc Lupien graduated in Chemical Engineering from Laval University in Quebec City. For 25 years, he worked in polymers sales and marketing for Dow Chemical and BASF Corporation, both in Canada and the United States. For the last 10 years, together with the North American teams from Sanexen Water and Fer-Pal Construction, Luc developed the North American market for watermain rehabilitation, using the Aqua-Pipe Technology.

Abstract:

Watermain CIPP lining is now a well-established technology: with over 1.6 Million meters installed in North America over the last 18 years, it is recognized as a viable and economical alternative to open cut replacement.

This presentation will review the basic project steps, specify the proper type of environment for the technology and have a look at some tests results.

Over the last 18 years, cities and municipalities in North America have presented papers on their experience with Aqua-Pipe®, in trade shows like ACE (AWWA) and Nod Dig (NASTT): we will be able to share their data.
Presentation Title: Key Findings from Surrey’s I&I Program
Presented by: May Petretta, City of Surrey

May Petretta is a project engineer with over 15 years of experience in municipal infrastructure. She holds a bachelor’s degree in Civil Engineering from UBC. Much of her career has been focused on asset management, condition assessments, inflow and infiltration studies, sewer rehabilitation strategies and trenchless technologies. She is trained in condition assessment coding and has viewed countless hours of CCTV videos.

May spent nearly 10 years in consulting prior to joining the City of Surrey. She is a sewer planner responsible for capital replacement programs and also manages the Inflow and Infiltration program for the City.

Abstract:

The City of Surrey has a well-established inflow and infiltration program. The first studies were completed in the late nineties and since then the City has completed several other studies and gone on to inspecting roughly half of the City’s 1,500 km sewer network. The City invests $1.5M annually on the I&I program to inspect, assess, repair/rehabilitate, and monitor the system.

Along the way we have gained some valuable lessons which has shaped the way we approach I&I management in the City today. Find out what is being done to assess and renew sewer infrastructure in one of the fastest growing cities in the lower mainland.