



# TAC 2019 Technical Workshop

The Use of Tunnelling Technologies and Underground  
Space for Stormwater and Flood Control



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Innovative Engineering Proven Technology

**Winnipeg**  
October 21-22, 2019

# Schedule

Monday, October 21, 2019

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| <b>8:45 – 9:00</b>   | <b>Introduction/Opening Remarks</b><br><i>Jason Mann, KGS Group and TAC Director, Manitoba and the Prairies</i>  |
| <b>9:00 – 9:15</b>   | <b>Opening Remarks from the Host City –<br/>Ongoing Programs and Future Planning</b><br><i>Geoffrey Patton, Manager of Engineering Services, City of Winnipeg</i>            |
| <b>9:15 – 10:00</b>  | <b>Overview of the Winnipeg Combined Sewer Overflow (CSO) Project</b><br><i>Patrick Coote, City of Winnipeg, Stephen Godon, Jacobs</i>                                       |
| <b>10:00 – 10:30</b> | Coffee Break   |
| <b>10:30 – 11:15</b> | <b>Performance Evaluation of Two 2,700 mm CSO Microtunnelling Drives<br/>in High Plasticity Winnipeg Clays</b><br><i>Kelly Fordyce, Ray Offman, KGS Group</i>                |
| <b>11:15 – 12:00</b> | <b>26.7 Million Gallons of Storage in Rubber City – Design and<br/>Construction Akron’s Ohio Canal Interceptor Tunnel</b><br><i>Chris Caruso, McMillen Jacobs Associates</i> |
| <b>12:00 – 13:00</b> | Lunch – Sponsored by Geoform Canada / TPH Waterproofing Systems  |
| <b>13:00 – 14:30</b> | <b>Constructing the 25 Km Super Sewer and Reconnecting London with<br/>the River Thames</b><br><i>John Kinnear, Jacobs</i>   |
| <b>14:30 – 15:00</b> | Coffee Break   |
| <b>15:00 – 15:45</b> | <b>Application of Multivariable Decision Making for the Baltimore Force<br/>Main Crossing</b><br><i>Jason Lueke, Associated Engineering</i>                                  |
| <b>15:45 – 16:30</b> | <b>Uniform Cutting Head Load Sharing in TBM Cuttingheads</b><br><i>Andrew Caruana, Ali Ghajari, Smith and Long</i>   |
| <b>16:45 – 17:45</b> | <b>TAC 2019 Annual General Meeting</b> (open to all active TAC members)  |
| <b>18:30 – 19:00</b> | <b>TAC Awards Banquet Cocktail Reception</b>   |
| <b>19:00 – 22:00</b> | <b>TAC Awards Banquet</b><br>– Sponsored by Geoform Canada / TPH Waterproofing Systems   |

# Schedule

Tuesday, October 22, 2019

- 9:00 – 9:15**      **Introduction/Opening Remarks**  
*Jason Mann, KGS Group, and TAC Director, Manitoba and the Prairies*
- 9:15 – 10:00**      **Trenchless Method Overview: Choosing the Right Approach**  
*Robin Lorenzen, Akkerman*
- 10:00 – 10:30**      Coffee Break
- 10:30 – 11:15**      **The Clean Rivers Project, Four Large Size TBMs deployed for DC's new CSO Program**  
*Steffen Dube, Herrenknecht Tunnelling Systems*
- 11:15 – 12:00**      **Northeast Interceptor Crossing of the Red River in Winnipeg**  
*Seamus Tynan & Sam McCabe, Ward & Burke Microtunnelling*
- 12:00 – 13:00**      Lunch – Sponsored by Geoform Canada / TPH Waterproofing Systems
- 13:00 – 13:45**      **City of Calgary – Inglewood Sanitary Trunk – Design and Construction**  
*Chris Macey, Marvin McDonald, AECOM*
- 13:45 – 14:30**      **Modern Use of Chemical Grouting in Tunnelling, Ground-Consolidation, and Waterproofing**  
*Götz Tintelnot, TPH Bausysteme GmbH*
- 14:30 – 15:15**      **Comprehensive Guidance and Data Monitoring Solutions for Small and Large Diameter CSO Tunnels**  
*Mathias Knoll, VMT Technical Measurement Solutions*
- 15:15 – 15:30**      **Closing Remarks**  
*Jason Mann, KGS Group, and TAC Director, Manitoba and the Prairies*



**Tunnelling Association of Canada**

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[www.tunnelcanada.ca](http://www.tunnelcanada.ca)

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