

## **CATT and Fleming College join forces to provide quality HDD education and training.**

Centre for Advancement of Trenchless Technologies (CATT) and Fleming College are delighted to announce a new hands-on four-day field course entitled “Horizontal Direction Drilling: Design to Construction” starting in June 2017. The demand for pipe and utilities installation using horizontal directional drilling (HDD) has been increasing rapidly because of the need to replace aging underground water and wastewater pipelines and the growth in telecommunications and energy (gas and electric) sectors. However, according to the Underground Construction (UC) [18<sup>th</sup> Annual HDD Survey](#), the strong HDD demand brought an influx of new contractors and professionals who have little or no training and knowledge about the HDD process and design. One of the interviewees, in the UC survey, mentioned how the new entrants were able to purchase the HDD equipment but did not know how to operate it. The survey emphasized that HDD design is the biggest challenge from contractors and owners’ perspective. [CATT’s annual surveys](#) also show acute shortage of adequately trained trenchless professionals. The ready availability of trained professionals is crucial to expand the HDD market and to control costs and to deliver successful projects on time.

Over the past 10 years CATT has developed and delivered very successful short courses that cover the HDD process, drill fluids, equipment, project planning, bore path and pipe design, and quality assurance and quality control. CATT has also been involved with the development of industry leading design tools: [BOREAIID](#); [PPI-BOREAIID](#) and [PPI-PACE](#). Fleming college has been providing training in drilling on their state-of-the-art HDD equipment that includes dill rig, service truck with fluid mixing system, tracking system, and downhole tools. “The new CATT-Fleming College HDD course will integrate classroom study and field practice,” explained Dr. Mark Knight, Executive Director of CATT. “The classroom lectures will provide details on surface and subsurface investigations, drilling fluids, project planning, design, construction and QA/QC, whereas field training component will include subsurface investigations, drill fluid testing, and installation of underground pipe using state-of-the-art HDD equipment.” The students will learn how to take into account the surface and subsurface information for project planning, design, drill fluids and tool selection, as well as, how to operate the HDD equipment and monitor critical parameters (alignment, fluid pressures, pull loads) during pipe installation. “We have a very unique training program in drilling at the Fleming college,” says Eva Rees, Manager of Continuing Education and Training. “By joining forces with CATT, the course has been expanded to include HDD design along with construction.” The new course will be attractive to broader audience that includes engineers, technologists, technicians, construction inspectors, and drill rig operators.



*HDD field school: pipe installation using HDD*

For further details, please contact Tracy Flinders (Tel: 705 324 9144 ext. 3295 or email: [tracy.flinders@flemingcollege.ca](mailto:tracy.flinders@flemingcollege.ca)) or CATT (Tel: 519 888 4770 or Email: [alice.seviora@uwaterloo.ca](mailto:alice.seviora@uwaterloo.ca)).

### **About CATT**

Established in 1994 at the University of Waterloo, the Centre for Advancement of Trenchless Technologies (CATT) helps municipalities to address their water and wastewater buried infrastructure challenges using trenchless technologies. Since its inception, CATT has achieved significant success and international recognition as a leader in education and research related to trenchless technologies and water infrastructure asset management. CATT offers high quality technical workshops and customized training courses on topics related to trenchless planning, design, construction, risk management, quality assurance and quality control.

### **About Fleming College**

Located in the heart of Central Ontario, Fleming College has campus locations in Peterborough, Lindsay, Cobourg and Haliburton. Named for famous Canadian inventor and engineer Sir Sandford Fleming, the college features more than 100 full-time programs in Arts and Heritage, Business, Environmental and Natural Resource Sciences, General Arts and Science, Health and Wellness, Justice and Community Development, Skilled Trades and Technology, and Continuing Education. Fleming College has more than 5,800 full-time and 10,000 part-time students, and 68,000 alumni.