THÈMES TECHNIQUES / TECHNICAL THEMES

Conception et opération d'infrastructures / Infrastructure Design and Operation

#Résumé #Abstract	Titre Title	Thème original Original Track	Premier auteur First author	Affiliation du premier auteur First author affiliation
ABS166	Hwy 621 – Pembina River Bridge, AB Slope Stabilization: A Case Study	4.1 Transportation	Adam Gmeinweser	Thurber Engineering Ltd.
ABS074	Modeling the Performance of a Highway Embankment Failure Reconstructed using Lightweight Tire Derived Aggregate (TDA) over a Soft Marine Clay: A Case Study	4.1 Transportation	Bernie Mills	Stantec Consulting Ltd., Edmonton, AB
ABS019	PERFORMANCE OF RECLAIMED ASPHALT PAVEMENT IN A STRUCTURAL FILL	4.1 Transportation	Brian Hall	Tetra Tech EBA
ABS092	Design and Construction of Shoreline Fortification to Protect Mainline Railway Corridor, Port Hope, Ontario	4.1 Transportation	Colin Alston	Alston Geotechnical Consultants Inc.
ABS492	Rockfall protection along Highway 403 in Hamilton, ON: A recent re-assessment and application of emerging site investigation methods.	4.1 Transportation	David F. Wood	David F. Wood Consulting Ltd.
ABS165	Inuvik to Tuktoyaktuk Highway Embankment Thickness Design Considerations	4.1 Transportation	Ed Grozic	Tetra Tech EBA Inc
ABS466	Assessment of Permafrost conditions under airports and access roads using an integrative approach to Support Adaptation Strategies to Climate Warming: Case Studies from Northern Quebec.	4.1 Transportation	Emmanuel L'hérault	Centre d'études nordiques
ABS349	A practical guide to permafrost vulnerability for Yukon's North Alaska Highway.	4.1 Transportation	Fabrice Calmels	Yukon Research Centre - Yukon College
ABS203	Deformation characteristics of the main embankments of the Qinghai-Tibet Railway in permafrost regions	4.1 Transportation	Fujun Niu	State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
ABS116	Slope Stabilization at Km 229 and Km 701-703 of the Alaska Highway: Site Challenges and Lessons Learned	4.1 Transportation	Jason Pellett	Tetra Tech EBA Inc.
ABS256	Performance of a railroad on degrading permafrost	4.1 Transportation	Kekeli Efu	Department of Civil Engineering, University of Manitoba
ABS471	Field-testing Study on Frost-heave Prevention of Highway Roadbed in Valley Regions of South Gansu Province, China	4.1 Transportation	Libo WU	Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
ABS513	3D data collection for emergency response situations	4.1 Transportation	Matt Lato	BGC Engineering Inc.
ABS090	Studying the impact of the construction of an underground pedway on the exiting LRT tunnels	4.1 Transportation	Mehdi Qoreishi	AECOM
ABS707	Stabilization to railway subgrade using screw piles	4.1 Transportation	Melissa Ruel	CN
ABS467	Fiber Optics Linearly Distributed Temperature Sensing for monitoring road performance on permafrost in Salluit, Nunavik	4.1 Transportation	Michel Allard	Centre d'études nordiques
ABS354	Remedial measures incorporating jet grouting and micropiles for the construction of a new backflow preventer	4.1 Transportation	Naresh Gurpersaud	Geo-Foundations
ABS363	Design principles for river control structures in permafrost areas	4.1 Transportation	Nikita Tananaev	Melnikov Permafrost Institute, SB RAS
ABS030	PROTECTION METHODOLOGY OF ROADS AND RAILWAYS AGAINST SAND MOVEMENT RISK	4.1 Transportation	Osama Abuhajar	Research Associate at Western University
ABS240	Design and Construction of a Geosynthetic Reinforced Pavement on Weak Sub-grade	4.1 Transportation	SAM BHAT	TITAN ENVIRONMENTAL CONTAINMENT Ltd
ABS538	Application of Reinforced Earth Walls with Large Rectangular Panels in Ontario	4.1 Transportation	Shahriar Mirmirani	Reinforced Earth Company Ltd.
ABS115	Thermal and physical state of discontinuous permafrost in the Great Slave Lowlands, NWT, with warming and disturbance implications on highway infrastructure	4.1 Transportation	Stephen Wolfe	Geological Survey of Canada, Natural Resources Canada

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ABS400	Investigation of Asphalt Mixture with Low Thermal Conductivity for Permafrost Region	4.1 Transportation	Tao Ma	Southeast University
ABS379	Adfreeze Pile Design for Bridges along the Inuvik to Tuktoyaktuk Highway, Northwest Territories	4.1 Transportation	Tim Schaap	Tetra Tech EBA Inc.
ABS745	Geotechnical Investigations for Rock Socket Designs for the Gateway Duplication Bridge, Brisbane	4.1 Transportation	vasantha wijeyakulasuriya	Coffey Geotechnics
ABS112	Coordination and Completion of Multi-Year Geotechnical Investigation in the Canadian Arctic: Challenges and Lessons Learned.	4.1 Transportation	Yves Cormier	CGS Member / Geotechnical Task Manager on project
ABS699	Reinforced soil comportment for railroad application	4.1 Transports	Marco Couture	Terre armée
ABS428	"BAHA". Systeme de gestion des risques associes aux castors le long des routes et des chemins de fer. Beaver risk management along transportation corridors.	4.1 Transports	Mario Ruel	CN
ABS159	Méthodologie de caractérisation et de valorisation des sédiments marins en technique routière	4.1 Transports	Raouf Achour	École des Mines de Douai
ABS446	Finite Element Analyses of Buried Pipeline Subjected to Cyclic Load Using ABAQUS	4.2 Pipelines	Ahdyeh Mosadegh	PhD Candidate in Department of Civil Engineering
ABS610	Secant Piled Shaft Construction and Microtunnelling in Sand	4.2 Pipelines	Aiden Horan	Ward and Burke Microtunnelling Ltd.
ABS076	Effect of corrosion on the soil structure interaction of steel culverts	4.2 Pipelines	Alex Campbell	Dalhousie University
ABS615	Incorporating Seismic Design into a Large Diameter Steel Water Main in Proximity to the Fraser River	4.2 Pipelines	Anthony Fuller	P.Eng.
ABS410	30 Years of Geotechnical Monitoring of the Norman Wells to Zama Pipeline: Overview and Lessons Learned.	4.2 Pipelines	Blake Brodland	AMEC
ABS795	Numerical Modeling of Stress Reducing Effects of Rigid Inclusions above Buried FRP Pipes	4.2 Pipelines	Dahlia Hafez	Cairo University
ABS053	ASSESSING AND MONITORING THE IMPACTS OF LANDSLIDES ON PIPELINES	4.2 Pipelines	Douglas Dewar	Spectra Energy Transmission
ABS376	PREDICTION OF GROUND TEMPERATURES FOR A PIPELINE ROUTE FROM ALBERTA TO QUEBEC AND OKLAHOMA	4.2 Pipelines	Entzu Hsieh	APEGA
ABS105	Pipeline Building in a Subarctic Permafrost Region —A Review for the China-Russia Crude Oil Pipeline (CRCOP) from Mo'he to Daqing, Northern Northeast China	4.2 Pipelines	Huijun Jin	State Key Laboratory of Frozen Soils Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
ABS313	Numerical simulation on the safe water conveyance distance of underground pipelines in the seasonally frozen areas	4.2 Pipelines	Ji Chen	State Key Laboratory of Frozen Soil Engineering , Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
ABS315	Application of analytical method in the anti-frost design parameter of underground pipeline in the seasonally frozen areas	4.2 Pipelines	Ji Chen	State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
ABS712	Impact of void formation on buried pipes	4.2 Pipelines	Jonathan Black	University of Sheffield
ABS225	Three dimensional finite element analyses of partially supported water mains	4.2 Pipelines	Kasuni Hordiyamulla Liyanage	Memorial University of Newfoundland
ABS334	Soil Failure Mechanism for Lateral and Upward Pipeline-Soil Interaction Analysis in Dense Sand	4.2 Pipelines	Kshama Roy	Memorial University of Newfoundland
ABS713	Hazard identification and evaluation using UAV photogrammetry for pipeline routing	4.2 Pipelines	Matthew Lato	BGC Engineering Inc.
ABS577	Numerical Modelling of the Earth Pressure Distribution on Buried Structures with Geofoam Inclusions	4.2 Pipelines	Mohamed Meguid	McGill University

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ABS579	Performance Evaluation of Buried Pipelines Subjected to Relative Soil Movement	4.2 Pipelines	Mohamed Meguid	McGill University
ABS721	A Coupled Soil Spring Formulation for Numerical Modeling of Buried Pipelines	4.2 Pipelines	NASSER DAIYAN	WorleyParsons Canada
ABS749	Integrating Laboratory Testing, Physical Modelling and Simulation Tools in Support of Pipeline Design for Geohazards	4.2 Pipelines	Shawn Kenny	Carleton University
ABS125	Mitigation for Infilling around Pipelines with Cyclic Lateral Deflections	4.2 Pipelines	Sylvia Bryson	C-CORE
ABS172	Coordination and Completion of a Remote Geotechnical Investigation Utilizing Heli-Portable Drilling Equipment.	4.2 Pipelines	Tyler Trudel	Stantec Consulting Ltd.
ABS472	Secondary Consolidation of a Cohesive Soil in Northern Ontario: A Case Study	4.3 Embankments and Dams	Andre Bom	Golder Associates
ABS068	Dyke design in complex geotechnical and geothermal conditions at the Gahcho Kué Project	4.3 Embankments and Dams	Andre Gagnon	Tetra Tech EBA
ABS485	Determination of Shear Strength Parameters of Dam Body Material using Disturbed Sampling	4.3 Embankments and Dams	Esra Nur Tanriseven	Middle East Technical University
ABS084	Study on the expressway construction technology in high altitude and cold regions How to choose the test and demonstration engineering	4.3 Embankments and Dams	Jin Fu	CCCC First Highway Consultants Co., LTD, Key Laboratory of Highway Construction & Maintenance Technology in Permafrost Region Ministry of Transport
ABS779	Selection of allowable long term reinforcement strains for deep-mixing-column supported embankments reinforced by viscous geosynthetic reinforcement	4.3 Embankments and Dams	Kaiwen Liu	GeoEngineering Centre at Queen's-RMC, Queen's University,
ABS085	Differential thaw settlement of widen highway embankment in permafrost regions	4.3 Embankments and Dams	Kun Yuan	CCCC First Highway Consultants Co., LTD, Key Laboratory of Highway Construction & Maintenance Technology in Permafrost Region Ministry of Transport
ABS475	Deformation moduli of rockfill embankment dams derived from field measurements during construction	4.3 Embankments and Dams	Marc Smith	Hydro Québec
ABS108	Evaluating the Performance of a Frozen Core Dam Founded on Ice Rich Saline Marine Silts and Clays	4.3 Embankments and Dams	Maritz Rykaart	SRK Consulting (Canada) Inc
ABS290	Numerical study of cooling effect of a rushed-rock interlayer embankment with perforated ventilation ducts along expressway in permafrost regions of the Qinghai-Tibet Plateau	4.3 Embankments and Dams	Mingyi Zhang	State Key Laboratory of Frozen Soil Engineering, Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences
ABS580	Numerical Modelling of Deteriorated Earth Levees	4.3 Embankments and Dams	Mohamed Meguid	McGill University
ABS211	Investigation of undrained shear strength using CPTu correlation and fissuring effects	4.3 Embankments and Dams	Moises Alfaro	Master`s Student
ABS456	An experimental study of contact erosion between a till core and coarser crest and filter materials	4.3 Embankments and Dams	Pierre-Olivier Dionne	Laval University
ABS360	Prédiction des tassements d'essais de plaque sur des enrochements de Romaine-2 à partir des résultats d'essais triaxiaux et œdométriques	4.3 Embankments and Dams	Simon Grenier	Groupe Qualitas inc.
ABS082	Numerical study on the thermal characteristics of multiple-lane ventilation-duct embankment for expressway in permafrost regions	4.3 Embankments and Dams	Yuanhong Dong	CCCC First Highway Consultants Co., LTD, Key Laboratory of Highway Construction & Maintenance Technology in Permafrost Region Ministry of Transport
ABS426	Le canal de Beauharnois: un projet ambitieux pour les années 1920	4.3 Remblais et barrages	Daniel Verret	Hydro-Québec
ABS590	Muskrat Falls – North Spur Dam Break Analysis	4.3 Remblais et barrages	Greg Snyder	FEC, Professional Engineer

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ABS464	Compressibility of rockfill using a large diameter oedometer, centrifuge testing and field data from Romaine-2 Dam	4.3 Remblais et barrages	Jean-Marie Komrad	Université Laval
ABS769	Permanent Displacement Analysis under Earthquake Loads of Earth and Rockfill Dams located in Eastern Canada	4.3 Remblais et barrages	Maxine Lacroix	Université Laval
ABS591	Geotechnical Observational Method Used in a Complex Dam Stabilization Work	4.3 Remblais et barrages	Regis Bouchard	Professional Engineer
ABS415	Programme d'investigation pour l'analyse dynamique d'un remblai fondé sur l'argile de la Mer de Champlain	4.3 Remblais et barrages	Steven Doré Richard	Hydro-Québec
ABS572	Short and long term compressibility of rock particle assemblages	4.3 Remblais et barrages	Vincent Cormier	Université Laval
ABS138	Analyse de la dégradation prématurée de l'enrochement du brise-lames de Rivière-au-Renard sous une approche de résistance aux cycles de gel/dégel, Gaspé, Québec	4.4 Géotechnique marine	Philippe Morin	Inspec-Sol inc.
ABS288	Thermal modelling of erosion protection with Gesoynthetic containers in combination with Light Clay Aggregate.	4.4 Harbour and Shoreline Geotechnique	Magne Wold	SINTEF Building and infrastructure
ABS620	Addressing Erosion without Riparian Disruption Vancouver Island BC	4.4 Harbour and Shoreline Geotechnique	Peter Bullock	GeoStabilization International
ABS299	Physical modelling of submarine gassy slope failures	4.4 Harbour and Shoreline Geotechnique	ryan phillips	C-CORE
ABS523	Preliminary Reservoir Impact Lines for the Site C Clean Energy Project	4.4 Harbour and Shoreline Geotechnique	Scott McDougall	BGC Engineering Inc.
ABS280	Field testing of large sand-filled geotextile containers used as a temporary flood protection system	4.4 Harbour and Shoreline Geotechnique	Steven Harms	University of Manitoba
ABS705	Permafrost characterization for the Dempster Highway, Yukon and NWT	4.5 Infrastructure performance in Cold Regions	Chris Burn	Carleton University
ABS065	Initial monitoring of an instrumented test section along the Inuvik-Tuktoyaktuk Highway	4.5 Infrastructure performance in Cold Regions	Earl Marvin De Guzman	University of Manitoba
ABS136	Flexural, compressive, and thermal properties of a composite geofoam-geogrid material for embankments on polygonal ground	4.5 Infrastructure performance in Cold Regions	Earl Marvin De Guzman	University of Manitoba
ABS791	Some properties of crushed rock materials used in the frost protection layer (Norway)	4.5 Infrastructure performance in Cold Regions	Elena Kuznetsova	Norwegian University of Science and Technology
ABS033	Geotechnical Design of Thermopile Foundation for a Building in Inuvik	4.5 Infrastructure performance in Cold Regions	Guangwen (Gordon) Zhang	Tetra Tech EBA
ABS040	Geotechnical Deep Foundation Design Challenges in Discontinuous Permafrost of Northern Manitoba	4.5 Infrastructure performance in Cold Regions	Hafeez Baba	SNC-Lavalin
ABS546	Thermostabilization of frozen ground foundation by means of low-temperature coolant	4.5 Infrastructure performance in Cold Regions	Ilya Komarov	Lomonosov Moscow State University
ABS343	NWT Highway 3 Test Sections near Yellowknife	4.5 Infrastructure performance in Cold Regions	Jan Stirling	BGC Engineering Inc.
ABS460	Frost Heave Parameters of Fine-grained Soils obtained from Shelby tubes and from Reconstituted Samples	4.5 Infrastructure performance in Cold Regions	Jean-Marie Konrad	Université Laval
ABS189	The application effect analysis of the two-phase closed thermosyphon embankment of the Qinghai-Tibet highway in permafrost regions	4.5 Infrastructure performance in Cold Regions	Jin Long	CCCC First Highway Consultants Co., LTD
ABS151	Solar Power In Ontario – Geotechnical Lessons Learned	4.5 Infrastructure performance in Cold Regions	John J. Brisbois	Stantec Consulting Ltd.
ABS089	Étude de l'influence de la circulation de l'eau à travers un ponceau construit sur pergélisol (Note : l'article sera en anglais)	4.5 Infrastructure performance in Cold Regions	Loriane Périer	Université Laval_Département de Génie Civil_Center for northern studies (CEN)

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ABS540	Non-Darcy and radiative effects on convective embankment modeling	4.5 Infrastructure performance in Cold Regions	Marc Lebeau	Laval University
ABS703	Monitoring permafrost conditions along the Dempster Highway	4.5 Infrastructure performance in Cold Regions	Muhammad Idrees	Government of Yukon
ABS735	Frost Action on Lightly Loaded Piles: the Ontario Solar Farm Experience	4.5 Infrastructure performance in Cold Regions	Pierre-Philippe Levasseur	Golder Associates Ltd.
ABS532	High-resolution monitoring of thaw subsidence affecting the access road to Umiujaq Airport in Nunavik (Quebec)	4.5 Infrastructure performance in Cold Regions	Richard Fortier	Centre d'études nordiques
ABS154	Factors Affecting Permafrost Temperatures beneath Raised Structures	4.5 Infrastructure performance in Cold Regions	Ron Coutts	Matrix Solutions Inc.
ABS743	Using a Limit States Approach for Ice Road Design	4.5 Infrastructure performance in Cold Regions	Sam Proskin	NOR-EX Ice Engineering Inc.
ABS571	Some innovative solutions developed for various aspects of design and construction in the territories of permafrost soils.	4.5 Infrastructure performance in Cold Regions	Sergei Primakov	Tyumen State University
ABS141	Impacts of permafrost degradation on roadway engineering along the Qinghai-Tibet Engineering Corridor	4.5 Infrastructure performance in Cold Regions	Yanhu Mu	State Key Laboratory of Frozen Soil Engineering, CAEERI CAS
ABS346	THE KUUJJUAQ AIRPORT: A CASE OF CLIMATE INTERACTIONS ON INFRASTUCTURE STABILITY IN THE DISCONTINUOUS PERMAFROST ZONE.	4.5 Performance des infrastructures en régions froides	Denis Sarrazin	CEN
ABS385	DÉVELOPPEMENT D'UN MODÈLE MÉCANISTE-EMPIRIQUE DE PRÉDICTION DE L'UNI DES CHAUSSÉES FLEXIBLES	4.5 Performance des infrastructures en régions froides	DJONKAMLA YOUDJARI	Université Laval
ABS223	Evolution of a New CSA Standard For Design of Building Foundations with Thermosyphons in Regions of Permafrost	4.5 Performance des infrastructures en régions froides	Don Hayley	Hayley Arctic Geoconsultants
ABS634	Développement d'une procédure de conception des infrastructures de transport construites sur le pergélisol tenant compte de l'accumulation de neige le long du remblai	4.5 Performance des infrastructures en régions froides	Florence Lanouette	Département de génie civil et Centre d'études nordiques, Université Laval, Québec, Canada
ABS589	The Muskrat Falls Hydroelectric Development: Design and Construction Progress	4.5 Performance des infrastructures en régions froides	Greg Snyder	FEC, Professional Engineer
ABS443	Laboratory study of creep behaviour of anchors in frozen silty soil	4.5 Performance des infrastructures en régions froides	Jean-Marie Konrad	Université Laval
ABS306	Calculation of superficial temperatures to assess the benefits of using high albedo road surfacing for mitigation of permafrost degradation	4.5 Performance des infrastructures en régions froides	Simon Dumais	Université Laval
ABS091	Suivi du comportement thermique et mécanique de l'adaptation aux changements climatiques de la route d'accès à l'aéroport de Salluit au Nunavik, Québec.	4.5 Performance des infrastructures en régions froides	Vincent Lamontagne	Département de génie civil de l'Université Laval