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<td>S5 T5</td>
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<td>S6 T2</td>
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<td>S18 T2</td>
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<td><strong>Thursday</strong></td>
<td>S19 T2</td>
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<td>S29 T2</td>
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<td>S36 T2</td>
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**Legend:**
- **Session # Theme # Session name (Room number)**
- **T1**: Innovation
- **T2**: Sustainable development
- **T3**: Hazards
- **T4**: Extreme conditions
- **T5**: Tailings
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| 13:00 | 130 - Breach modelling: why, when and how?  
M. Hassan, M. Morris & C. Soff  
HR Wallingford Ltd, Wallingford, United Kingdom  
M. Demarty & C. Debois  
Eingle Corp, Montreal, Canada  
A. Trebey & F. Bilodeau  
Hydro-Quebec, Montreal, Canada. | 318 - Greenhouse gas emissions from newly-created boreal hydroelectric reservoirs of La Romaine complex in Quebec, Canada  
M. Demarty & C. Debois  
Eingle Corp, Montreal, Canada  
A. Trebey & F. Bilodeau  
Hydro-Quebec, Montreal, Canada. | 14 - Seismic safety evaluation of Tekeze arch dam  
A. Aran & T. Naseo  
School of Earth Sciences, Addis Ababa University, Addis Ababa, Ethiopia  
M. Wieland  
Chairman, ICOLD Committee on Seismic Aspects of Dam Design, Poyry Switzerland Ltd, Zurich, Switzerland | 411 - Retour d’expérience sur les mélanges chaud/ciment dans les écrans + deep soil mixing + des levées de la Loire  
S. Patouillard  
DREAL Centre–Val de Loire, France  
L. Sausavy  
Cerema, France  
F. Mathieu  
Solutanche Bachy, France  
A. Le Koubay  
Pattar, France  
Dr. Touron | 386 - An operational perspective in the implementation of the new guidelines related to tailings management  
M. Julien, E. Masengo, P. Lavoie & T. Lépine  
Agnico Eagle Mines Limited, Toronto, Ontario, Canada | 187 - Using maturity matrices to evaluate a dam safety program and improve practices  
K. Knott  
Dams Safety Intelligence, New Zealand  
L. Sen th  
CEATI International, Canada |
| 13:18 | 134 - Canal Embankment Failure  
H. Kheirkhah Gildeh, P. Hosseini & H. Zhang  
Golder Associates Ltd., Calgary, Canada  
M. Riaz & M. Achariya  
Alberta Environment and Parks, Edmonton, Canada. | 126 - Comparison of reproducibility of water temperature and water temperature stratification formation by different methods in dam reservoir water quality prediction model  
F. Kimura & T. Kitamura  
Water Resources Environment Center, Japan, Tokyo, Japan  
Y. Tsuruta & T. Kanayaka  
CTI Engineering Co., Ltd., Tokyo, Japan  
R. Kikuchi  
Baghmane Construction Co. Ltd., Tokyo, Japan  
E. Masengo  
Poyry Switzerland Ltd, Zurich, Switzerland | 43 - Towards Reliability Based Safety Assessment of Gated Spillways Subjected to Severe Loadings  
R. Leclercq & P. Léger  
Department of Civil, Geological and Mining Engineering, Polytechnique Montreal (Montreal University), Quebec, Canada. | 182 - Refurbishment of Ontario Power Generation’s Sir Adam Beck Pump Generating Station Reservoir, Niagara Falls – Construction Execution  
R. McRory, B. Andruchock  
Golder Associates Ltd, Mississauga, Ontario, Canada  
N. Rosthough  
Golder Associates Ltd, Vancouver, British Columbia, Canada. | 175 - Static Liquefaction Analysis of the Fundido Dam Failure  
G.A. Riveros & A. Saderekari  
Department of Civil and Environmental Engineering at Western University, London, Canada | 363 - A consequence-based tailings dam safety framework  
J. Herza, M. Ashley & J. Thorp  
GHD Pty Ltd, Perth, Australia  
A. S. I.  
KGB, Canada |
| 13:36 | 133 - CFD Modelling of Near-Field Dam Break Flow  
S. Esmaeili Mohsenabadi, M. Mohammadian, I. Nistor & H. Kheirkhah Gildeh  
Department of Civil Engineering, University of Ottawa, Ottawa, Canada. | 247 - The Study on the Impetus Mechanism into Resettlement due to Dams in China – The Analyses based on WDD Hydropower station’s immigration  
S. Yangjuang  
Three Gorges Corporation, China | 454 - The use of Ambient Vibration Monitoring in the behavioral assessment of an arch dam with gravity flanks and limited surveillance records  
L. Hattingh  
Hattingh Anderson Associates CC, Woodstock, South Africa  
P. Moyo  
University of Cape Town, Cape Town, South Africa  
S. Shaanika & M. Muteke  
University of Zimbabwe, Harare, Zimbabwe | 192 - Comparison of cyclic resistance ratios of tailings estimated using standard empirical methods and cyclic direct simple shear tests  
G. Nadarajah & D. Bleiker  
Mixed Environmental and Infrastructure Solutions, Mississauga, Ontario, Canada  
S. Sivathanayan  
Department of Civil Engineering, Carleton University, Ottawa, Ontario, Canada. | 195 - A case for innovation in establishing policies, practices and standards for dam safety  
D. N. D.  
Hartford BC Hydro, Burnaby, British Columbia, Canada |
| 13:54 | 307 - Levee and dam breach erosion through coarser grained materials  
M. W. Morris  
HR Wallingford Ltd. (HRW), Wallingford, UK  
J.R. Courvieau  
Electricité de France (EDF CIH), Bourget du Lac, France  
R. Moran & M. A. Toledo  
Universidad Politecnica de Madrid (UPM), SERPA Research Group, Spain  
C. Picard  
Golder Associates Ltd., Calgary, Canada. | 149 - Integrating climate change impacts in the valuation of hydroelectric assets  
P. Pineault, E. Fournier, A. Lary, A. Harnatt  
Duracore, Montreal, Quebec, Canada  
R. Arsenault  
École de technologie supérieure, Montreal, Quebec, Canada. | 494 - State of the art nonlinear seismic analysis of an arch dam  
S. S. Sooch & D. D. Curtis  
Hatch Ltd, Niagara Falls, Canada  
N. Likavec  
Polytechnique Montréal, QC, Canada | 33 - Innovations in drawoff works replacement  
P. A. Bush & B. Cotter  
Dél Cyrimu Welsh Water, United Kingdom  
L. Warren & C. E. Woolcomb-Adams  
Matt MacDonald, United Kingdom | 8 - Drainage and consolidation of mine tailings near waste rock inclusions  
F. Saleh-Mbemba & M. Aubertin  
Polytechnique Montréal, Quebec, Canada  
G. Boudrias  
Golder Associates, Montréal, Quebec, Canada. | 105 - Necessity of a new public safety program around dams in Korea  
O. H. Shin & D. S. Park  
K-water Institute, Daejeon, South Korea |
| 14:12 | 407 - Predictive Behaviour Analyses for Reservoir Cascades  
V. Stoyanova  
Arup, Leeds, United Kingdom  
K. Cobbes  
CC Hydrodynamics Ltd, High Wycombe, United Kingdom | 155 - Effects of a salt-contained formation on Gotvand Reservoir, An overview on a 7-year monitoring  
A. Zia, H. Hassan & N. Kamou  
Mahab Ghods Consulting Engineering Company, Iran | 49 - Kangaroo Creek Dam upgrade – a balanced approach to the design of upgrade works  
P. A. Malinos, J. P. Buchanan & M. B. Barker  
GHD Pty Ltd, Melbourne, Australia | 298 - Enhancement of contractive tailings using deep soil mixing technique at Ktila mine  
E. Masengo, M. R. Julien, P. Lavoie & T. Lépine  
Agnico Eagle Mines Limited, Toronto, Ontario, Canada  
J. Nousiainen, J. Saukkoriipi, M. Plekkari & J. Karvo  
Agnico Eagle Finland Oy, Kiistala, Finland | 369 - Risk tolerability criteria in dam safety – what is missing?  
P. A. Zielinski  
HYDROSMS Inc., Toronto, Canada  
E. J. H.  
NHPC, Faridabad, Haryana, India |
| 14:30 | 505 - Study of bank erosion and protection measures on Subansiri River, Assam, India  
R. K. Chaudhary  
MHPA, Trongsa, Bhutan  
M. Anand  
NHPC, Dhemaji, Assam, India  
P. C. Upadhyay  
NHPC, Faridabad, Haryana, India | 51 - Seismic assessment of a dam-foundation reservoir system using Endurance Time Analysis  
J.W. Salamon  
US Bureau of Reclamation, Denver, CO, USA  
M.A. Harrie-Ardebili  
University of Colorado & X-Elastica LLC, Boulder, CO, USA  
H.E. Estekanchi & M.R. Mashayekhi  
Sharif University of Technology, Tehran, Iran | 416 - Small earth dam failure in Burkina Faso: the case of the Koumбри dam  
A. Nacanabo  
Ministry of Water and sanitation, Ouagadougou, Burkina Faso  
M. Kabore  
Burkina National Committee on Dams | 43 - Innovation in Dam Screening Level Risk Assessment  
B. Oboni & C. Oboni  
Oboni Riskope Associates Inc., Vancouver, BC, Canada  
M. North  
Richmond, Vancouver, B.C. | 505 - Classification of Itaipu and Three Gorges Dams according to criteria of Brazilian and Chinese government agencies  
C. Wambé, F. Huachao  
China Yangtze Power Co., Ltd. Yichang, China  
S. F. Motos, E. F. Faria, M. Gayoso  
ITAPIU BINACIONAL, Brazil/Paraguay. |
275 - Small historic dams made safe
D.E. Neeve & M. Jenkins
Arup, Leeds, UK

L.Q. Li, J.R. Xu, Y.L. Jiang
Corporation Limited, Hangzhou, China

383 - Numerical Modelling of Construction
EDF Hydro – Centre d’Ingénierie
H. Longtin & E. Péloquin
Hydro-Québec Production, Montréal, Canada

575 - Développement de nouveaux coulis
dam as the management efforts of Bogowonto Watershed
M. Yushar Yahya Alfarobi
SNC Lavalin Engineering India Pvt. Ltd., New Delhi, India

427 - Dams in 3D: The Importance of
Scott L. Jones, PE, PhD
Université de Sherbrooke, Sherbrooke, Canada

438 - Detailed investigations and finite
V. Fukuda & R. Akita & K. Doke
NIPPON KOEI CO., LTD, Tokyo, Japan

112 - Sedimentation management in
N. Skolar-Evamut, J. Meljo, N. Kodre, T. Prohinar
Slovenian Water Agency, Ljubljana, Slovenia

514 - Assessment of apparent cohesion at
S. Renaud, T. Saichi & N. Bouanana
IC consultenten ZT GmbH, Vienna, Austria

127 - Turbidity control and sediment
T. Suzuki
Kyoto University, Kyoto, Japan

274 - National Census on River and Dam
V.V. Arora & B. Singh
National Council for Cement & Building Materials, Ballabgarh, Haryana

566 - Bener Dam as the management
tools in water resource management in West Java, Indonesia
A. Lashin & I. Uskov
PJSC "Power Machines", Saint-Petersburg, Russia

225 - Operation of large Norwegian
could be a candidate for dam design in the future. A.
J. Bruce, P. Eng.
Klok Crippen Berger Ltd., Vancouver, BC, Canada

226 - Sedimentation management plan in
H. Okumura, C. Onda & T. Satoh
Klohn Crippen Berger Ltd., Vancouver, BC, Canada

75 - Challenges in Engineering of Pare
A. Nordin & A. Tardieu
ANBT, Algérie

57 - Change in river basin morphology
due to climate change led extreme flood event
S.V. Singh & K. V. Vishnoi
THDC India Limited, Rishikesh, Uttarakhand, India

443 - Comparison of cracks and
M. Asaigh, S. Motamedian, M. M. Hashemi
POGCO, Power Machines Co. Ltd., Tehran, Iran

110 - Diversion tunnel orifices for energy dissipation during reservoir filling at Site
J. Bruce, P. Eng.
Klok Crippen Berger Ltd., Vancouver, BC, Canada

755 - Development of new concepts
A. Mehta & D.V. Thareja
SNC Lavalin Engineering India Pvt. Ltd., New Delhi, India

294 - Considering geosynthetic-reinforced
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M. Yushar Yahya Alfarobi
SNC Lavalin Engineering India Pvt. Ltd., New Delhi, India

388 - Detailed investigations and finite
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Y. V. Arora & S. Singh
National Council for Cement & Building Materials, Ballabgarh, Haryana

297 - Sediment replenishment as a
measure to enhance river habitats in a residual flow reach downstream of a dam
S. Stehly & A. J. Schleiss
Ecole Polytechnique Fédérale de Lausanne (EPFL), Lausanne, Switzerland

557 - Change in river basin morphology
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S.V. Singh & K. V. Vishnoi
THDC India Limited, Rishikesh, Uttarakhand, India

261 - Global sensitivity analysis in the
design of rockfill dams
J. R. Xu, Y. L. Jiang
Hydro-Québec Production, Montréal, Canada

26 - Global sensitivity analysis in the
design of rockfill dams
J. R. Xu, Y. L. Jiang
Hydro-Québec Production, Montréal, Canada

273 - Future of sediment management in
efficiency in a coupled hydro-mechanical model
S. N. Roth
Hydro-Québec, Montréal, Canada

274 - National Census on River and Dam
V.V. Arora & B. Singh
National Council for Cement & Building Materials, Ballabgarh, Haryana

442 - Geosynthetic-reinforced
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M. Yushar Yahya Alfarobi
SNC Lavalin Engineering India Pvt. Ltd., New Delhi, India

432 - Un barrage en milieu aride
L. Berro & A. Tardieu
ANBT, Algérie

014 - Assessment of apparent cohesion at
dam-rock interfaces through multiscale modelling
S. Renaud, T. Saichl & N. Bouanana
Dept. of Civil, Geological and Mining Eng., Polytechnique Montréal, QC, Canada

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M. Asaigh, S. Motamedian, M. M. Hashemi
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National Council for Cement & Building Materials, Ballabgarh, Haryana

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Klok Crippen Berger Ltd., Vancouver, BC, Canada

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Hydro-Québec Production, Montréal, Canada

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V.V. Arora & B. Singh
National Council for Cement & Building Materials, Ballabgarh, Haryana