

8th International Symposium on Submarine Mass Movements and Their Consequences, Victoria, British Columbia, Canada

Program

Day 1 - May 7th, 2018

8:00 AM Registration Desk Opens

8:50 AM Call everyone to conference hall

		Theme	
9:00 AM	Gwyn Lintern	Introductions	Hello and Security Announcement
9:05 AM	Philip Hill and Kate Moran		Welcome
9:20 AM	Joshu Mountjoy	Keynote	<u>Keynote: Preconditioning and triggering dynamics of subaqueous landslides. Observations from New Zealand’s active landscape</u>
10:00 AM	Maarten S. Heijnen	Subaqueous mass movements in lakes, fjords and coastal areas	<u>Upstream-migrating knickpoints: The dominant control on submarine channel evolution?</u>
10:15 AM	Marten Geertsema		<u>Landslide detection in Lakelse Lake, British Columbia</u>
10:30 AM	BREAK		
10:45 AM	Nicole J. Baeten		<u>The impact of submarine mine tailings disposal on the fjord bottom in Frænfjorden, Norway</u>
11:00 AM	Robert Deering		<u>GSL: Morphological characterization of submarine slope failures in a semi-enclosed fiord, Frobisher Bay, eastern Canadian Arctic</u>
11:15 AM	Annie-Pier Trottier		<u>Poster: Deglacial and postglacial paleoseismological archives in mass-movement deposits of lakes of south-central Québec</u>
11:17 AM	Cooper D. Stacey		<u>Poster: Submarine slides in a fjord environment: Douglas Channel, British Columbia</u>
11:19 AM	Kate Heerema	<u>Poster: Using unprecedented, direct measurements of turbidity currents to understand flow front speed evolution</u>	

11:21 AM	Kendall C. Mollison	Subaqueous mass movements in lakes, fjords and coastal areas	<u>Poster: Sedimentology, structure, and age of one submarine landside on the continental slope of eastern Australia and an analysis of likely causes of unique sedimentary deposits identified</u>
11:23 AM	Maddalena Sammartini		<u>Poster: Towards a consistent morphometric characterization of lacustrine landslides</u>
11:25 AM	Lewis Bailey		<u>Poster: Preconditioning and Triggering of Turbidity Currents in Monterey Canyon, California</u>
11:30 PM	Maddalena Sammartini	Tectonics and Mass Movements	<u>GSL: Open slope, translational submarine landslide in a tectonically active volcanic continental margin (Licosa submarine landslide, Southern Tyrrhenian Sea)</u>
11:45 PM	Davide Gamboa		<u>Morphological trends of submarine landslides in salt basins – examples from the Espírito Santo Basin (SE Brazil)</u>
12:00 PM	LUNCH		
1:00 PM	Euan Soutter	Tectonics and Mass Movements	<u>The Halibut Slide - a giant submarine landslide triggered by Paleocene mantle plume activity in the North Atlantic</u>
1:15 PM	Michael Riedel		<u>GSL: Slope failures along the deformation front of the Cascadia margin: linking slide morphology to subduction zone parameters</u>
1:30 PM	Natsumi Okutsu		<u>GSL: Evidence for surface sediment remobilization by earthquakes in the Nankai forearc region from sedimentary records</u>
1:45 PM	Amando Lasabuda		<u>Late Cenozoic glacial sediment input to the Arctic Ocean – quantifying the contribution from the Barents Sea sector</u>
2:00 PM	J.K. Lackey		<u>GSL Poster: Spatial and temporal cross-cutting relationships between fault structures and slope failures along the outer Kumano Basin and Nankai accretionary wedge, SW Japan</u>
2:02 PM	Davide Gamboa		<u>Poster: Drilling through the giant Ruatoria Debris Flow on the Hikurangi Margin, New Zealand: preliminary results from IODP Expedition 372 Site U1520</u>
2:04 PM	Harya D. Nugraha		<u>Poster: Tectonic and oceanographic process interactions archived in the Late Cretaceous to Recent stratigraphy, Exmouth Plateau, offshore NW Australia</u>
2:10 PM	BREAK		

2:25 PM	Oded Katz	Tectonics and Mass Movements	GSL: The nature of small to medium earthquakes along the Eastern Mediterranean passive continental margins, and their possible relationships to landslides and submarine salt-tectonic-related shallow faults
2:40 PM	Dr. Yi-Ching Yeh		<u>Submarine Tectonic Activities and Canyon Erosion Interactive Slope Instabilities in the Kaoping Slope Area, southwestern offshore Taiwan</u>
2:55 PM	David Hodgson	Mass Transport Deposits in Modern and Outcrop Sedimentology	GSL: Entrainment and abrasion of megaclasts during submarine landsliding and their impact on flow behaviour
3:10 PM	Lilian Navarro		GSL: Stratal architecture and evolution of a slope mass-transport complex, Isaac Formation, Neoproterozoic Windermere Supergroup, southern Canadian Cordillera, British Columbia, Canada
3:25 PM	BREAK		
3:35 PM	Masayuki Utsunomiya		GSL Poster: Preferential formation of a slide plane in translational submarine landslide deposits in a Pleistocene forearc basin fill exposed in east-central Japan
3:37 PM	Yuzuru Yamamoto	GSL Poster: Repeated large-scale mass-transport deposits and consequent rapid sedimentation in the western part of the Bay of Bengal, India	
3:39 PM	Cooper D. Stacey	<u>Poster: The Kitimat Slide Complex - New perspectives on an old problem</u>	
3:41 PM	Yuanqin Xu	<u>Poster: Submarine Landslide Identified in DLW3102 Core of the Northern Continental Slope, South China Sea</u>	
3:43 PM	Harya D. Nugraha	Failure Dynamics from Landslide Geomorphology	<u>Poster: Slope degradation and mass-transport complex (MTC) emplacement: new insights from a 3D seismic case study, Exmouth Plateau, offshore NW Australia</u>
3:45 PM	Brandi L. Lenz		<u>Poster: Seismic Imaging of Seafloor Deformation Induced by Impact from Large Submarine Landslide Blocks, Offshore Oregon</u>
3:47 PM	Kuan-Ting Chen		<u>Poster: Submarine landslides and triggering mechanisms on the continental margin of the northeastern South China Sea</u>
3:49 PM	M. Brunet		<u>Poster: Investigation of creeping mechanics of the Tuaheni Landslide Complex (TLC) in the Hikurangi Margin, New Zealand, using micro-4D-XCT measurements on cores from the IODP Expedition 372</u>
3:51 PM	David Huntley	Tsunami Generation from Slope Failures	GSL Poster: Extending the terrestrial depositional record of marine geohazards in coastal NW British Columbia
3:53 PM	Aaron Misalief		<u>Poster: Malta's tsunami inundation hazard - A Submarine Landslide and Earthquake Tsunami Scenario Study</u>

3:55 PM	Liu Jie	Prediction, engineering design and mitigation to reduce damage by submarine mass movements	<u>Poster: Features of engineering geology and evaluation of regional stability of the submarine canyon in the northern South China Sea</u>
3:57 PM	Huai-Houh Hsu	Geotechnical Aspects of Mass Movements	<u>Poster: Submarine Sediments' Site Characteristics and Their Slope Stability Assessments off SW Taiwan</u>

4:00 PM Poster session starts and registration desk closes

6:30 PM Poster session ends

Day 2 - May 8th, 2018

8:30 AM Registration Desk Opens

8:50 AM Call everyone to conference hall

9:00 AM	Lorena Moscardelli	Introduction	S4SLIDE
9:20 AM	Matthieu Cartignay	Keynote	<u>Keynote: New insights from international efforts to monitor active turbidity currents at global test sites</u>
10:00 AM	Shun Nomura	Instrumentation and methods for monitoring submarine mass movements	GSL: Sediment mass movement of a particle-laden turbidity current based on ultrasound velocity profiling and the distribution of sediment concentration
10:15 AM	Todd Mudge		<u>Turbidity Flow Detection and Coherent Doppler Velocity Unwrapping at The Delta Dynamics Laboratory</u>
10:30 AM	David C. Mosher		<u>Poster: Ultra-high Resolution Seismic Reflection Imaging of Submarine Landslides: the Geoforce Boomer/Sparker Sub-bottom profiler</u>
10:32 AM	W. B. Cheng		<u>Poster: Geophysical Investigation of Shallow Subsurface Fracture Distribution on the Accretionary Prism off Southwest Taiwan</u>
10:34 AM	Alison L. Bird		<u>Poster: The use of Virtual Reality Technology in the Examination of Three-Dimensional Submarine Landslide Data</u>
10:36 AM	BREAK		

10:50 AM	Alexandre Normandeau	Multidisciplinary Case Studies	GSL: New evidence for a major late Quaternary submarine landslide on the external western levee of Laurentian Fan
11:05 AM	Revital Bookman		<u>Micropaleontological and taphonomic characteristics of mass-transport deposits in the northern Gulf of Eilat/Aqaba</u>
11:20 AM	Maarten Vanneste		GSL: Geohazard assessment related to submarine instabilities in Bjørnafjorden, Norway
11:35 AM	David Cox		<u>Slip Sliding Away: Enigma of Large Sandy Rafts within a Gas Bearing Mass Transport Complex, Offshore NW Greenland</u>
11:50 PM	Jan Blahut		<u>Poster: Monitoring the dynamics of a giant landslide on El Hierro, Canary Islands, Spain</u>
11:52 PM	Lara F. Pérez		<u>Poster: Mass transport deposits in the Arctic Ocean: Recent mass movements on the Lomonosov Ridge and in Amundsen Basin</u>
11:54 PM	Ricardo León		GSL Poster: Submarine landslide catalogue onshore/offshore harmonization: Spain as a case study
11:56 PM	Jaume Llopart		<u>Poster: Hydrogeological evolution of a Trough Mouth Fan in the western Barents Sea and implications for continental slope stability</u>

12:00 PM LUNCH

1:00 PM	Michael Clare	Panel	International Submarine Landslide Database
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1:30 PM	Nana Kamiya	Multidisciplinary Case Studies	GSL: Formation of excess fluid pressure, sediment fluidization and mass-transport deposits in the Plio-Pleistocene Boso forearc basin, central Japan
1:45 PM	Jenna C. Hill		GSL: Subsurface controls on the development of the Cape Fear Slide Complex, central US Atlantic Margin
2:00 PM	Mario Andres Gutierrez		<u>Poster: Systematic Lithologic Characterization of Neogene Mass-Transport Deposits, Mississippi Canyon of the Northern Gulf of Mexico, USA</u>
2:02 PM	Ricardo León		<u>Poster: Morphometrical Insights of the Spanish Submarine Landslides</u>
2:04 PM	Tugdual Gauchery		<u>Poster: Triggering factors and stratigraphic reconstruction of multi-stage failures in the southeastern slope of the Gela Basin in the Strait of Sicily (Central Mediterranean Sea).</u>

2:06 PM	Sebastian Krastel	Multidisciplinary Case Studies	Poster: <u>High resolution seismic stratigraphic of sediment transport events in the eastern Laurentian Fan</u>
2:08 PM	Ian Hargeaves		Display: Ocean Sonics acoustic measurements on submarine mass movements
2:10 PM	BREAK		
2:25 PM	Revital Bookman		Insights on the evolution of a recent slide complex: A case study of the Goliath Slide, <u>offshore southern Israel</u>
2:40 PM	Morelia Urlaub		GSL: Combining in situ monitoring using seabed instruments and numerical modelling to assess the transient stability of underwater slopes
2:55 PM	Thomas T.C.T. Hubble		GSL: Submarine landslides offshore Yamba, NSW, Australia: an analysis of their timing, downslope motion and possible causes
3:10 PM	Nan Wu		Poster: <u>Petrophysical properties of mass transport complexes (MTCs) in the Gulf of Mexico</u>
3:12 PM	Rachel Barrett	Numerical and Statistical Analysis	Poster: <u>Towards semi-automatic delineation of submarine landslides</u>
3:14 PM	Natasha Chapplow		Poster: <u>How the temperature of a turbidity current varies as its flow evolves: Real-time data during two powerful turbidity current events in Monterey Canyon, California</u>
3:16 PM	Jaume Llopart		Poster: <u>Hydrogeological evolution as a pre-conditioning factor for slope failure in a back-arc volcanic setting, W off Martinique Island</u>
3:20 PM	BREAK		
3:35 PM	Michael Clare		GSL: A consistent global approach for the morphometric characterization of subaqueous landslides
3:50 PM	Dr. Yi An		GSL: A two-dimensional layer-averaged numerical model for submarine gravity currents
4:05 PM	Jannis Kuhlmann	Fluid Flow and Gas Hydrates	GSL: Seismic and lithofacies characterization of a gravity core transect down the submarine Tuaheni Landslide Complex, northeastern New Zealand
4:20 PM	Luis Somoza		GSL: Giant mass-transport deposits in the southern Scotia Sea (Antarctica)
4:35 PM	Derek E. Sawyer		Poster: <u>Interplay of Salt Tectonics, Gas Hydrates, and Submarine Landslides in the Hypersaline Orca Basin Brine Pool, Gulf of Mexico, Continental Slope</u>

4:37 PM	Songbo Long		Poster: 3D Finite Element Modeling for Possible Creeping Behavior and Instability of Gas Hydrate-related Slipstream Submarine Slide, offshore Vancouver Island, Canada
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4:40 PM Day 2 Presentations End

6:30 PM Guests start to arrive at Museum

7:00 PM Dinner Service

9:30 PM Guests Depart

Day 3 - May 9th, 2018

8:30 AM Registration Desk Opens

8:50 AM Call everyone to conference hall

9:00 AM	Daniele Casalbore	Failure Dynamics from Landslide Geomorphology	GSL: Failure dynamics of landslide scars on the lower continental slope of the Tyrrhenian Calabrian margin: insights from an integrated morpho-bathymetric and seismic analysis.
9:15 AM	Irena Schulten		GSL: Surficial sediment failures due to the 1929 Grand Banks Earthquake, St Pierre Slope
9:30 AM	Jacques Locat		GSL: Failure and post-failure analysis of submarine mass movements using geomorphology and geomechanical concepts
9:45 AM	Omri Gadol		<u>Mass Transport Complexes role in the evolution of continental slopes: a multiscale case study offshore Israel</u>
10:00 AM	BREAK		
10:30 AM	Pi-Chun Huang		<u>A mass failure in the northern flank of the Kueishantao Island off northeastern Taiwan: debris avalanches and related structures in the offshore downslope</u>
10:45 AM	Gwyn Lintern	Submarine Mass Movement in Margin Construction and Economic Significance	GSL: Providing Multidisciplinary Science Advice for Coastal Planning in Kitimat Arm, British Columbia
11:00 AM	Benjamin Bellwald		GSL: Shear margin moraine, mass transport deposits and soft beds revealed by high-resolution P-Cable three-dimensional seismic data in the Hoop area, Barents Sea

11:15 AM	Daniel Brothers	Submarine Mass Movement in Margin Construction and Economic Significance	GSL: Slope Failure and Mass Transport Processes along the Queen Charlotte Fault: Southeastern Alaska
11:30 PM	Daniel Brothers		GSL: Slope Failure and Mass Transport Processes Along the Queen Charlotte Fault Zone; Western British Columbia
11:45 PM LUNCH			
12:45 PM	To be annouced	Panel	Costs, Hazard Analysis, and Mitigation of Submarine Landslides
1:15 PM	Michael Steventon	Submarine Mass Movement in Margin Construction and Economic Significance	<u>Strain distribution within mass-transport complexes: seismic characterisation and structural restoration, offshore Uruguay</u>
1:30 PM	S. Krastel		GSL: Mass wasting along the NW-African continental margin
1:45 PM	BREAK		
2:00 PM	Andrée Blais-Stevens	Tsunami Generation from Slope Failures	<u>A compilation of subaerial landslides deposited in Douglas Channel and Howe Sound fjords, British Columbia and their potential geohazard implications</u>
2:15 PM	Ceren Ozer Sozdinler		<u>Preparation of High Resolution Tsunami Inundation Maps for Selected Test Sites in Marmara Sea, Turkey due to Possible Submarine Landslides</u>
2:30 PM	David Huntley		<u>Tsunami Generation from slope failures near in Kitimat fjord, northwest British Columbia</u>
2:45 PM	BREAK		
3:00 PM	Dominique Turmel	Tsunami Generation from Slope Failures	GSL: Tsunami modelling of the 7250 cal years BP Betsiamites submarine landslide
3:15 PM	Veneste or David Mosher		GSL: Modelling the 1929 Grand Banks slump and landslide tsunami
3:30 PM	Reginald Hermanns		GSL: SPLASH: semi-empirical prediction of landslide-generated displacement wave run-up heights
3:45 PM	Jacques Locat	Closing	Closing Address
3:55 PM	David Mosher and Gwyn Lintern		Concluding remarks and acknowledgments

4:00 PM Symposium ends