



PROVISIONAL PROGRAMME – SUBJECT TO CHANGE
(last updated 30.9.19)

TUESDAY 3 – FRIDAY 6 DECEMBER

Pre Conference Field Trip Travel from Christchurch to Queenstown via Mt Cook National Park See website for details	
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SATURDAY 7 DECEMBER

PYRN activities and other group meetings	
5:00 – 7:00pm	Welcome Function at the Copthorne Hotel

SUNDAY 8 DECEMBER

7:30am	Registration Desk Opens		
8.30am – 9.10am	Official Opening Mihi/Welcome/Health & Safety Chairs: Megan Balks, Conference Convenor and Hanne Christiansen, IPA President Room: Galaxy I		
9:10 – 10:15am	Plenary Speakers: Professor Antoni Lewkowicz, University of Ottawa The impermanence of permafrost Dr Fiona Shanhun, Science Manager, Antarctica New Zealand Looking South: The New Zealand Antarctic Programme Chair: Hanne Room: Galaxy I		
10:15am – 10:40am	Morning Tea + Poster Session 1		
Room	Galaxy I	GALAXY II	GALAXY III
Session number/name	1 - Permafrost Engineering	2 - Analogy between terrestrial Martian and remote-sensed data	Poster Session
Session Chair	Adrian McCallum & PYRN Member TBC	Anshuman Bhardwaj and Javier Martin-Torres	
10.40am – 11.00am	<i>Session Keynote</i> Influence of artificial disturbance on permafrost - a case study of Gulian airport in Mohe city, Northeastern China Yan Lu <i>Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy Of Sciences</i>	<i>Session Keynote</i> Sublimation in the CRREL permafrost Tunnel-implications for ice-loss landforms on Mars Thomas Douglas <i>Cold Regions Research and Engineering Laboratory</i>	
11.00am – 11.15am	Thermal Influence of Ponding on the China-Russia Crude Oil Pipeline (CRCOP) in Permafrost Regions Mingtang Chai	Morphological analogies between surface manifestations of permafrost on Mars and Earth Lydia Sam	

	<i>Northwest Institute of Eco-environment And Resources, Chinese Academy of Sciences</i>	<i>Luleå University of Technology</i>	
11.15am - 11.30am	The risk and applicability evaluations of the application of cast-in-place bored pile in permafrost regions Zhi Wen <i>State Key Laboratory of Frozen Soil Engineering</i>	Analyzing Change in Russian Arctic Urban Areas using Multiple Remote Sensing Data Sources Ryan Engstrom <i>The George Washington University</i>	
11.30am – 11.45pm	Thermal behavior of a novel crushed-rock embankment for expressway in permafrost regions Minghao Liu <i>Northwest Institute of Eco-environment And Resources, Chinese Academy of Sciences</i>	Post-wildfire surface deformation at Batagay, Eastern Siberia, detected by L-band and C-band InSAR Kazuki Yanagiya <i>Hokkaido University</i>	
11.45am – 12.00pm	Analysis on application effect of temperature controlled ventilated embankment in Qinghai-Tibet testing Expressway Zhenyu Zhang <i>Northwest Institute of Eco-environment And Resources, Chinese Academy of Sciences</i>	Mapping Permafrost Distribution in the North-Western Himalaya Region: Ladakh (Leh) based on Remote Sensing. Md. Ataullah Raza Khan <i>Kumaun University</i>	
12.00pm – 12.15pm	Analysis of cooling effect on a concrete thermal pile in permafrost regions Yunhu Shang <i>State Key Laboratory of Frozen Soil Engineering, Chinese Academy of Sciences</i>		
12.15pm – 1.25pm	Lunch		
Room	Galaxy I	GALAXY II	GALAXY III
Session number/name	3 - Permafrost Engineering continued	4 - Rock Glacier identification, dynamics, and hydrological importance	POSTER SESSION
Session Chair	Adrian McCallum & PYRN Member TBC	Shelley MacDonnell and Nicole Schaefer	
1.25pm – 1.45pm	<i>Session Keynote</i> Study on key issues of expressway construction in permafrost regions in China Qihao Yu <i>Northwest Institute of Eco-environment And Resources, Chinese Academy Of Sciences</i>	<i>Session Keynote</i> IPA Action Group - Rock glacier inventories and kinematics (2018-2020): ongoing work and first results Chloé Barboux <i>Department of Geosciences - Geography, University of Fribourg, Switzerland</i>	
1.45pm – 2.00pm	Artificial Ground Cooling using Solar Paneled Thermosyphons Anna Wagner <i>U.S. Army Cold Regions Research and Engineering Laboratory</i>	Using geophysical techniques to identify the presence of ice, aiding optical imagery interpretation of rock glaciers and periglacial landforms Nicole Schaffer <i>Centro De Estudios Avanzados En Zonas Áridas</i>	
2.00pm – 2.15pm	Field observations on thermal performance of air-convection embankment affected by surface water ponding in permafrost zones Yanhu Mu <i>State Key Laboratory of Frozen Soil Engineering, Chinese Academy of Sciences</i>	Mapping rock glaciers in the Southern Alps of New Zealand with Sentinel-1 InSAR Christophe Lambiel <i>University of Lausanne</i>	
2.15pm – 2.30pm	Settlement Problems of Land-bridge Piles in the Qinghai-Tibet Railway and Inspiration from its Treatment Ji Chen <i>Northwest Institue Of Eco-environment And Resources, Cas, China</i>	<i>Decadal-scale variability of polar rock glacier dynamics: Accelerating due to warming?</i> Norikazu Matsuoka <i>University of Tsukuba</i>	
2.30pm – 2.45pm	Cooling performance of crushed-rock embankments and their application in permafrost regions Mingyi Zhang <i>Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences</i>		

2.45pm – 3.00pm	Changes of Chinese Cold Regions and the Adaptation Measures for Linear Engineering Fujun Niu <i>State Key Laboratory Of Frozen Soil Engineering, Northwest Institute Of Eco-environment And Resources, CAS</i>	<i>Rock glaciers in the central Andes (Chile)</i> Cedomir Marangunic <i>Geoestudios, Chile</i>	
3.00pm – 3.40pm	Afternoon Tea + Poster Session 2		
Room	Galaxy I	GALAXY II	GALAXY III
Session number/name	5 – ANTPAS: Antarctic permafrost, soils and ground ice	6 - Rock Glacier identification, dynamics, and hydrological importance - continued	POSTER SESSION
Session Chair	Marjolaine Verret and Ian Meiklejohn	Shelley MacDonnell and Nicole Schaefer	
3.40pm – 4.00pm	<i>Session Keynote</i> Pan-Antarctic modelling of permafrost temperatures at 1 km scale Jaroslav Obu <i>University Of Oslo</i>	<i>Session Keynote</i> The hidden ice of the Andes – quantifying rock glacier water storage capacities Lothar Schrott <i>University of Bonn, Department Of Geography</i>	
4.00pm – 4.15pm	Ice table depth, ground ice and its δD - $\delta^{18}O$ composition in cold-dry soils Denis Lacelle <i>University Of Ottawa</i>	Rock glacier degradation and instability in the Tianshan Mountains, China: a case study Zhou Yu <i>Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences</i>	
4.15pm – 4.30pm	Origin of ground-ice in miocene sediments, friis hills, Antarctica Marjolaine Verret <i>Antarctic Research Centre, Victoria University of Wellington</i>	Hydrological processes at rock glacier using historical data of observations (Suntar-Khayata Ridge, Eastern Siberia) Nataliia Nesterova <i>St. Petersburg State University</i>	
4.30pm – 4.45pm	Constraining the age of ice-free permafrost environments in the South Shetland Islands Marc Oliva <i>Universitat de Barcelona</i>	Modeling ground temperatures to investigate potential water sources in ice-rich rock glaciers Luisa Pruessner <i>ETH Zurich</i>	
4.45pm – 5.00pm	Ground Temperatures in the Ahlmannryggen, Western Droning Maud Land Antarctica Ian Meiklejohn <i>Rhodes University</i>	Debris-covered glacier and rock glacier kinematics in the Andes (30°S), documented by 64 years of remote sensing and field observations Sebastián Vivero <i>University of Lausanne</i>	
5:30pm – 8:00pm	PRYN FUNCTION – Queenstown Bowling Club		

MONDAY 9 DECEMBER

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8.00am	Registration Desk Opens			
8:30 – 9:30am	Welcome Plenary Speakers: Permafrost in Antarctica – Carlos Schaeffer, Tanya O’Neill, and Alexey Lupachev Chair: TBC Room: Galaxy I			
9.30am – 10.00am	Poster session 1 min each Chair: Megan Balks			
10.00am – 10.40am	Morning Tea + Poster Session 3			
Room	Galaxy I	GALAXY II	GALAXY III	
Session number/name	7 - Permafrost and periglacial environments/ Sub-Antarctic Islands – sentinels of change	8 - Methods to measure, monitor, and sample cryosols and permafrost/ Past environments in permafrost regions	Poster Session	
Session Chair	David Hedding	Marc Oliva and PYRN Member TBC		
10.40am – 11.00am	<i>Session Keynote</i> Changes in hydraulic connections in the Source Area of the Yellow River (SAYR) using isotope tracing techniques Huijun Jin <i>State Key Lab Frozen Soils Eng, Cas</i>	<i>Session Keynote</i> Subglacial bedrock drilling in Antarctica: Options and recent events Pavel Talalay <i>Polar Research Center, Jilin University, Changchun, China</i>		
11.00am – 11.15am	Modelling Thermal Regime of an Intrapermafrost Talik in Central Yakutia, Siberia Nikita Tananaev <i>Melnikov Permafrost Institute SB RAS</i>	Scott Base Redevelopment Environmental Monitoring Programme Pauline Sitter <i>Antarctica New Zealand</i>		
11.15am - 11.30am	The vegetation in the forefield of glacier in the Uj-su valley (Eastern Pamir, Tajikistan) Łukasz Chachulski <i>Warsaw University of Life Sciences</i>	Digital soil mapping of functional soil properties of the McMurdo Dry Valleys Pierre Roudier <i>Manaaki Whenua - Landcare Research</i>		
11.30am – 11.45pm	Using Topography to Establish Holocene Glaciation and Volcanism on Sub-Antarctic Marion Island Ian Meiklejohn <i>Rhodes University</i>	Ground thermal variability within a subarctic peat plateau landscape Britta Sannel <i>Stockholm University</i>		
11.45am – 12.00pm	Characteristics of ground surface temperatures at Chalaping, the source area of the Yellow River, Northeastern Qinghai-Tibet Plateau Dongliang Luo <i>Cold and Arid Regions Environmental and Engineering Research Institute, Chinese Academy of Sciences</i>	Geochronology of Cryoplanation Terraces in the Yukon-Tanana Upland, Alaska Kelsey Nyland <i>Michigan State University</i>		
12.00pm – 12.15pm		A simple algorithm of active layer freeze-thaw processes at the watershed scale in the Qinghai-Tibet plateau Kewei Huang <i>Institute of Mountain Hazards and Environment, Chinese Academy of Sciences</i>		
12.15pm – 1.10pm	Lunch			
Room	Galaxy I	GALAXY II		GALAXY III
Session number/name	9 - Mountain permafrost	10 - Permafrost and climate change at high latitudes	POSTER SESSION	
Session Chair	Carlos Schaeffer and Roberto Michel	Britta Sannel, Bernd Etzelmüller and Florence Magnin		
1.10pm – 1.30pm	<i>Session Keynote</i> Identification of water-sources in permafrost-affected catchment (33°s;70°3’w) Sebastian Ruiz <i>Instituto De Geografia, Catholic University of Chile</i>	<i>Session Keynote</i> Late Holocene increase in atmospheric greenhouse gas forcing due to permafrost aggradation in a subarctic peatland, NE European Russia Minna Väiliranta <i>Helsinki Institute of Sustainability Science</i>		

1.30pm – 1.45pm	Soil thermal and moisture regime along a climosequence at the Bolivian Altiplano-Amazon watershed, Cordillera Real, Bolivia Senra Eduardo	High Arctic Permafrost Biogeochemistry Under Climate Change Eleanor Jones <i>University of Sheffield</i>	
1.45pm – 2.00pm	Hydrological processes of thermokarst lake in the Tibet Plateau, China Zeyong Gao <i>State Key Laboratory Of Frozen Soil Engineering, Chinese Academy of Sciences, China</i>	Conceptual model of formation and evolution of gas emission craters on Yamal peninsula Yury Dvornikov <i>Earth Cryosphere Institute of Tyumen Scientific Center SB RAS</i>	
2.00pm – 2.15pm	2D thermal modelling of unstable rock walls in Norway: Examples from Mannen and Gámanjunni 3 Justyna Czekirda <i>Department Of Geosciences, University Of Oslo</i>	Evaluation of biogeophysical feedbacks in ice-wedge degradation through field measurements, remote sensing, and modelling Anna Liljedahl <i>University of Alaska Fairbanks</i>	
2.15pm – 2.30pm		Multi-scale characterization of polar permafrost landscapes, Yukon and Northwest Territories, Canada Christof Kneisel <i>University of Wuerzburg, Institute of Geography and Geology</i>	
2.30pm – 3.30pm	Afternoon Tea + Poster Session 4		POSTER SESSION
Session number/name	11 - Mountain permafrost - continued	12 - Permafrost and climate change at high latitudes - continued	
Session Chair	Carlos Schaeffer and Roberto Michel	Britta Sannel, Bernd Etzelmüller and Florence Magnin	
3.30pm – 3.45pm	Glacier-permafrost-interaction at a thrust moraine complex in the Val Muragl, Swiss Alps Christof Kneisel <i>University of Wuerzburg, Institute of Geography and Geology</i>	Microbial survival and metabolism across a pan-Arctic study of North American and Siberian permafrost Rachel Mackelprang <i>California State University Northridge</i>	
3.45pm – 4.00pm	Cochiguaz" river sub-basin rock glaciers, warming & mining impact Francisco Ferrando <i>Universidad De Chile</i>	Which climatic changes affect permafrost and periglacial landforms the most? Hanne Hvidtfeldt Christiansen <i>The University Centre In Svalbard, Unis</i>	
4.00pm – 4.15pm	Use of LIDAR data in the identification of geomorphic processes, Keller Peninsula, King George Roberto Michel <i>Universidade Estadual De Santa Cruz</i>	Long-term spatially distributed monitoring of thaw subsidence on Alaska's North Slope Dmitry Streletskiy <i>GWU</i>	
4.15pm – 4.30pm	Permafrost is a crucial factor for paraglacial landscape modifications in glaciated mountain regions Bernd Etzelmüller <i>University of Oslo</i>	Collapse and regeneration of Aparejo Glacier, central Chile Felipe Ugalde <i>Geoestudios</i>	
4.30pm – 4.45pm	Recent Acceleration of Thaw Slump Activity in the Permafrost Region of the Qinghai-Tibet Plateau Jing Luo <i>Tate Key Laboratory of Frozen Soil Engineering, Northwest Institute of Eco-environment And Resources</i>		
5:00 – 6:00pm	PUBLIC LECTURE: Location: Millennium Hotel Room: Galaxy I Simon Cox (Principal Scientist, GNS Science Dunedin) "An introduction to the geology and tectonics of the Southern Alps" And David Barrell (Senior Scientist, GNS Science Dunedin) "Southern Alps glaciers, geomorphology and history of climate change"		
From 7:00pm	Conference Dinner, Skyline Gondola Artist speaker (20 mins)		

TUESDAY 10 DECEMBER

	Field Trips
	See website for details

WEDNESDAY 11 DECEMBER

8.00am	Registration Desk Opens			
8:30 – 9:30am	Plenary Speakers: Fujun (China) Michael Krautblatter, Technical University of Munich Chair: Room: Galaxy I			
9.30am – 10.00am	Poster session 1 min each Peter Almond			
10.00am – 10.40am	Morning Tea + Poster Session 5			
Room	Galaxy I	GALAXY II	GALAXY III	
Session number/name	13 - Cryogenic Soils of Arctic and Antarctica	14 - Living with permafrost/ Training through research for international educational	Poster Session	
Session Chair	Dmitry Streletsky, Nikita Mergelov and Alexey Lupachev	Vladislav Isaev and Anna Klene		
10.40am – 11.00am	<i>Session Keynote</i> Long-term soil and active layer temperature trend at Fildes Peninsula, King Roberto Michel <i>Universidade Estadual De Santa Cruz</i>	<i>Session Keynote</i> Sustainable Development in Yakutia: Economic, Environmental and Innovative Aspects Anisia Lazareva <i>North-Eastern Federal University</i>		
11.00am – 11.15am	Soil climate and active layer depth monitoring, from 1999-2018, and relationship to regional climate drivers, Ross Sea Region, Antarctica Annette Carshalton <i>University Of Waikato</i>	Urban Safety and Sustainable Development in Northeast China's Permafrost Regions Wenbing Yu <i>College Of Civil Engineering, Chongqing Jiaotong University</i>		
11.15am - 11.30am	Stability and biodegradability of soil organic matter in North-Western Siberia, Russian Arctic Ivan Alekseev Saint Petersburg State University	Developing a rock glacier management plan in Northern Chile Shelley MacDonell <i>Centro De Estudios Avanzados En Zonas Áridas</i>		
11.30am – 11.45pm	Links between increased summer and winter precipitation and enhanced seasonal thaw of permafrost across a variety of Alaskan ecosystems Thomas Douglas <i>Cold Regions Research and Engineering Laboratory</i>	Traditional and Nontraditional Permafrost Infrastructure and Climate Change: Examples from Alaskan and Russian Arctic Nikolay Shiklomanov <i>The George Washington University</i>		
11.45am – 12.00pm	<i>The Preliminary Analysis of the Polychemical Pollution of Cryogenic Soils and Upper Permafrost in Russia</i> Aleksei Lupachev <i>Institute Of Physico-chemical And Biological Problems In Soil Science, Ras</i>	Russian-Norwegian Research-based education in Cold Regions Engineering Vladislav Isaev <i>Lomonosov Moscow State University</i>		
12.00pm – 12.15pm		Study of cryopegs phase composition under the frame of internship Artem Shimanov <i>Lomonosov Msu</i>		
12.15pm – 1.10pm	Lunch			

Room	Galaxy I	GALAXY II	GALAXY III
Session number/name	15 - Cryosols and permafrost at high altitudes in Asia	16 - GTN-P Global terrestrial network for permafrost	POSTER SESSION
Session Chair	TBC and PYRN Member TBC		
1.10pm – 1.30pm	<i>Session Keynote</i> Spatial variation of active layer thickness in a mountainous area of the eastern Tibetan Plateau Defu Zou <i>Northwest Institute of Eco-Environment and Resources, Chinese Academy of Sciences</i>	<i>Session Keynote</i> Climate change warms and degrades permafrost in Norway's and Iceland's mountains Bernd Etzelmuller <i>University of Oslo</i>	
1.30pm – 1.45pm	Content and distribution of non-silicate iron forms along depth of hydrogenic soil profiles from the Eastern Pamir (Tajikistan) Malgorzata Suska Malawska <i>Faculty Of Biology At University Of Warsaw</i>	Elevation impacts on mountain permafrost temperatures, Yukon, Canada Antoni Lewkowicz <i>University of Ottawa</i>	
1.45pm – 2.00pm	The characteristics of ground ice isotopes in the permafrost regions of the Central Qinghai-Tibetan Plateau Tonghua Wu <i>Northwest Institute Of Eco-environment And Resources, chinese Academy Of Sciences</i>	Active layer thickening and controls on interannual variability at Nordic CALM sites Sarah Strand <i>The University Centre In Svalbard</i>	
2.00pm – 2.15pm	Permafrost distribution pattern nearby Zonag Lake in the Qinghai-Tibet Plateau, China Changwei Xie <i>Cold And Arid Regions Environmental And Engineering Research Institute, Chinese Academy Of Sciences</i>	20-years of permafrost monitoring in Switzerland: lessons learned and key messages Cécile Pellet <i>University Of Fribourg</i>	
2.15pm – 2.30pm	<i>Properties of soils developed under cushion plants in glacier forefield in the Eastern Pamir, Tajikistan.</i> Marcin Sulwinski <i>University Of Warsaw, Faculty Of Biology, Biological And Chemical Research Centre</i>	CALM I-V: A Quarter-Century of Observations at Alaskan Active Layer Monitoring Sites Frederick Nelson <i>Michigan State University</i>	
2.30pm – 3.15pm	Conference Close: Awards, China IPA 2020 and Farewell Chair: Megan Balks		

THURSDAY 12 – SATURDAY 14 DECEMBER

	Post Conference Field Trip
	Travel Queenstown to Christchurch via South-Westland World Heritage area and West Coast glaciers
	See website for details