

# PAM 2017 - Preliminary Programme

## Friday 8 September 2017

15.30-17.00	Registration and coffee
17.00-17.15	Welcome: Mayor of Nuuk Asii Chemnitz Narup & Conference Chair Carsten Suhr Jacobsen
17.15-18.00	Opening keynote: Professor Minik Rosing, Natural History Museum of Denmark - <b>title tbc</b>
18.30 -	Welcome reception at conference venue

## Saturday 9 September 2017

8.30-10.30	Session 1: Permafrost microbiology Chair: Anders Prieme, Rachel Mackelprang	Speakers:
	Life in Pleistocene Permafrost: A Tale of Survival Strategies and Carbon Metabolism	<u>Invited speaker:</u> Rachel Mackelprang
abstract no.1	Metagenomic insights into changing Arctic permafrost communities	Oliver Müller
abstract no.2		
abstract no.3	Distinct microbial communities associated with cryoturbated organic matter in the Arctic permafrost soils	Jiri Barta
abstract no.4	Active microbial community of denitrifiers, nitrogen fixing-bacteria, and methanotrophs and their effect on the N <sub>2</sub> O and CH <sub>4</sub> soil gas flux in the High Arctic	Ianina Altshuler
abstract no.5	Dispersal limitation and thermodynamic constraints govern permafrost community composition across landscape gradients	Eric Bottos
10.30-11.00	Coffee break & exhibition	
11.00-12.00	Poster flash talks	
12.00-13.30	Lunch break & exhibition	
13.30 - 15.30	Session 2: Interactions between psychrophilic microorganisms and the environment Chairs: Don Cowan, Oddur Vilhelmsson	Speakers:
	Structure, function, response and resilience of microbial communities in Antarctic terrestrial soils	<u>Invited speaker:</u> Professor Don Cowan, University of Pretoria, South Africa
abstract no.6	Interaction of the psychrotroph <i>Pseudomonas fluorescens</i> In5 with phytopathogens in cold soils	Rosanna Hennessy
abstract no.7	Grazing causes changes in methane production and the microbial methane filter of High Arctic peatland soils	Edda Marie Rainer
abstract no.8	Some like it cold, some like it colder - strong regionality in the diazotrophic bacterial communities associated with arcto-alpine pioneer plants	Riitta Nissinen
abstract no.9	Bioremediation pilot scale study of petroleum contaminated soils in Utqiagvik, Alaska	Robyn Barbato
abstract no.10	Microbial Response to Glacial/Interglacial Periods in Permafrost Deposits - Implications for Future Greenhouse Gas Production	Dirk Wagner
abstract no.11	Biodegradation of pesticides on glaciers	Roberto Ambrosini
15.30-16.00	Coffee break & exhibition	
16.00-16.45	Poster flash talks	
16.45-18.45	Poster session	

## Sunday 10 September 2017

8.30-9.30	Keynote by Professor Dorthe Dahl-Jensen, Niels Bohr Institute, University of Copenhagen, Denmark - <b>title tbc</b>	
9.30-10.00	Coffee break & exhibition	
10.00 - 11.45	Session 3: Glacier and snow microbiology Chairs: Alexandre M. Anesio, Marek Stibal	Speakers:
	<b>Title tbc</b>	<u>Invited speaker:</u> Professor Alexandre M. Anesio, University of Bristol, UK
Abstract no. 12	Co-occurrence networks demonstrate microbial community shifts in arctic snow	Benoît Bergk-Pinto
Abstract no. 13	Biogeography of cryoconite bacterial communities on glaciers of the Tibetan Plateau	Yongqin Liu
Abstract no. 14	Metabolically active, rare bacterial taxa underpin community stability on the Greenland Ice Sheet	Jarishma Gokul
Abstract no. 15	Investigating microbial biomass, activity and diversity from basal ices from the Greenland Ice Sheet	Mark Skidmore
11.45 - 13.00	Lunch break & exhibition	
13.00-14.00	Session 3: Glacier and snow microbiology continued Chairs: Alexandre M. Anesio, Marek Stibal	Speakers:
Abstract no. 16	Structural and Functional Characterization of the Soil Microbiome along a Glacier Forefield Chronosequence including Sources of Colonizers	Johanna Donhauser
Abstract no. 17	Characterisation of Yeast and filamentous fungi of Arctic cryoconites	Purnima Singh
Abstract no. 18	Snow algae increase melt on the Harding Icefield	Gerard Ganey
14.00-14.30	Coffee break & exhibition	

<b>14.30-16.00</b>	<b>Session 4: Microbiology of sea ice and cold oceans</b> Chairs: Jody Deming, Peter Stougaard	<b>Speakers</b>
Abstract no. 19	<b>Microbial adaptations that enable life in subzero brines</b> <b>Microbial functional diversity and resilience in Polar ecosystems</b>	<u>Invited speaker:</u> Professor Jody Deming, Washington State University, USA David Pearce
Abstract no. 20	<b>Prokaryotic community structures along salinity gradients of melt ponds on sea-ice floes in the Chukchi Sea</b>	Gwangil Jang
Abstract no. 21	<b>Glacial controls on microbial competition and biogeochemical cycles in Arctic fjords</b>	Alexander Michaud
Abstract no. 22		
<b>16.00-18.00</b>	<b>Poster session</b>	
<b>Monday 11 September 2017</b>		
<b>08.30-10.30</b>	<b>Session 5: Physiology and evolution of psychrophilic microorganisms</b> Chairs: Lyle G. Whyte, Nina Gunde-Cimerman	<b>Speakers:</b>
Abstract no. 23	<b>Adaptations in cryophilic microorganisms for life in extreme polar environments</b> <b>Multiple origins and adaptive strategies of diatoms in the meltwater streams of the McMurdo Dry Valleys, Antarctica</b>	<u>Invited speaker:</u> Professor Lyle G. Whyte, McGill University, Canada Angela Zoumplis
Abstract no. 24	<b>Comparative genomics of the polyextremotolerant black yeast <i>Aureobasidium pullulans</i></b>	Cene Gostinčar
Abstract no. 25		
Abstract no. 26	<b>Microbial exopolysaccharides from the cold-adapted <i>Psychrobacter arcticus</i> 273-4</b>	Maria Michela Corsaro
Abstract no. 27	<b>What color should snow algae be?</b>	Roman Dial
Abstract no. 28	<b>Investigation of cold adaptation in Arctic permafrost bacteria through comparative genome and amino acid analyses</b>	Isabelle Raymond
<b>10.30-11.00</b>	<b>Coffee break &amp; exhibition</b>	
<b>11.00-12.30</b>	<b>Public poster session</b>	
<b>12.30-13.30</b>	<b>Lunch break &amp; exhibition</b>	
<b>13.30-15.00</b>	<b>Session 6: Methods to measure Microbial activity at polar and alpine systems</b> Chairs: Tim Ulrich, Carsten Suhr Jacobsen	<b>Speakers:</b>
Abstract no. 29	<b>Response of Arctic permafrost soil microbiomes to elevated temperature</b> <b>Assessment of the phototrophic potential in the cryosphere by laser-induced-fluorescence emission (L.I.F.E.)</b>	<u>Invited speaker:</u> Professor Tim Ulrich, Ernst-Moritz-Arndt University of Greifswald, Germany Klemens Weisleither
Abstract no. 30	<b>Metagenomic insights into nitrogen fixation in glacial forefields</b>	Maisie Nash
Abstract no. 31		
Abstract no. 32	<b>Exploring the Diversity and Functional Capacity of Arctic Plasmids Through Cultivation-Independent Approaches</b>	Rose Layton
<b>15:00-15:15</b>	<b>Poster Awards</b>	
<b>15:15 - 15:45</b>	<b>Coffee break &amp; exhibition</b>	
<b>15.45-18.00</b>	<b>Wild card presentations / Hot topics in cold microbiology</b> Chairs: David Pearce, Mark Skidmore	<b>Speakers:</b>
Abstract no. 33	<b>Investigating genetic adaptations of airborne microorganisms to long-distance aeolian transport and their impact on atmospheric processes in the high Arctic</b>	Tina Šantl-Temkiv
Abstract no. 34	<b>Unique bacterial Fe-redox cycling chemolithotrophic communities beneath Greenland Ice Sheet in the NGRIP bedrock water</b>	Sergey Bulat
Abstract no. 35		
Abstract no. 36	<b>New terrestrial Mars analog habitat sites in the Permafrost of Continental Antarctica</b>	Jean-Pierre de Vera
Abstract no. 37	<b>Microbial transcriptional responses to thawing and freezing of active layer soil</b>	Anders Priemé
Abstract no. 38	<b>The microbiota of on-shore natural gas seepage pockmarks in northern Iceland</b>	Oddur Vilhelmsson
Abstract no. 39	<b>Black Bloom <i>Penicillium</i> sp. on the Greenland ice sheet</b>	Nina Gunde-Cimerman
<b>18.00-18.30</b>	<b>Closing session &amp; Announcement of the next PAM Conference</b>	
<b>19:00 -</b>	<b>Conference Dinner at conference venue</b>	
<b>Tuesday 12 September 2017</b>		
	<b>EXCURSION DAY</b> (tour options on conference website) or <b>Cinema:</b> "Ekspeditionen til verdens ende" / "The expedition to the end of the world" Introduction by Minik Rosing	