

PYRN ice breaker during Nunataryuk-APECS workshop in Venice

By Jannik Martens

In partnership with the EU project Nunataryuk and APECS, PYRN organized an ice breaker during a Young Researcher Workshop in Venice, Italy, in October 2018. This was a great opportunity for the up-and-coming young scientists in the Nunataryuk project to connect with PYRN, thereby making long-lasting professional relationships and new friends. The workshop had a particular interdisciplinary focus on how permafrost thaw and changing Arctic coasts affect the environment and the society.



PYRN ice breaker in the unique Caffè ai Crociferi, which is located in an old monastery, and the island of San Servolo where the young researcher workshop was held.

PYRN Russia Meeting in Moscow

By Dmitry Nekrasov

On November 16th the PYRN Russia meeting #43 “How did I spend this summer” took place at the Institute of Geography, Russian Academy of Sciences. Young permafrost researchers, mainly from the Geography and Geology faculties, shared their summer field experience with others,

showed bright photos and told unforgettable stories about the places they visited, the people they met, and the research they conducted. There were six talks from a wide variety of places from Svalbard to Alaska, from Yamal to Chukotka and more! Live translation of PYRN Meeting was organized via official PYRN Instagram page (@pyrn_official) that allowed 10-15 more people to join us virtually and to hear young researcher talks. During the coffee break, PYRN stickers were distributed among the attendees to identify themselves as a part of our community!



Group picture of PYRN Russia members and attendees of PYRN Meeting

PYRN Workshop dedicated to Proposal Writing in Bremerhaven

By Josefine Lenz

On November 30th, 16 young researchers met in Bremerhaven for the PYRN Workshop during the 10th meeting of the Working Group Permafrost of the German Society of Polar Research (DGP) in Bremerhaven (30 Nov – 1 Dec 2018).

Two months earlier, the representatives of PYRN DACH started a survey among the community in order to identify the workshop topic of most interest. As a result, proposal writing was clearly the top topic to be discussed (2nd and 3rd favorite topics were an acquisition of third-party funds and communication with the media).

At the beginning of the workshop, the organizers introduced PYRN and recent developments of PYRN DACH which included a symbolic baton handover of the German representation from Josefine Lenz (since 2014) to Matthias Winkel.

To learn about the art of grant writing, we gratefully received valuable input from our speaker Imke Fries, from the Research Support Department of the Alfred Wegener Institute. Many questions and a lively discussion indicated great interest and after a coffee break we did some “living statistics“. By orienting ourselves in the room, we found out we had about the same amount of people presently being M.Sc., Ph.D. or Postdoc. The majority had no or limited experience with grant writing and but were very interested starting to do so soon.

Prof. Michael Krautblatter (TU Munich) presented the perspective of a University Professor and potential funding schemes for different career stages. By the end, Josefine Lenz (AWI) introduced Ph.D. scholarships as an alternative and independent funding sources.

We would like to thank all speakers, APECS for additional support and the participants for a fruitful discussion.

The PYRN DACH representatives: Samuel Weber (Switzerland), Ingo Hartmeyer (Austria), Matthias Winkel and Josefine Lenz (Germany)



AGU Fall meeting 2018

By Matthew Whitley

At the AGU Fall meeting 2018, PYRN-NA teamed up with the US Association of Polar Early Career Scientists (USAPECS) to host a panel on Diversity and Inclusivity in the Polar Sciences. The panelists - Emilie Sinkler (University of Alaska Fairbanks), Kaare Erickson (Ukpeaġvik Iñupiat Corporation), Allison Mattheis (California State University, Los Angeles), and Marilyn Raphael (University of California, Los Angeles) - all provided

unique perspectives on (1) the current challenges facing minority groups and women in the polar sciences, such as barriers to entry for underrepresented groups, sexual harassment at work and in the field, and representation of indigenous knowledge in the polar sciences; (2) what we as individuals can do to bring these issues to the forefront of conversations in scientific organizations and universities; and (3) strategies to promote diversity and inclusion of underrepresented perspectives in the polar sciences. The panel went well and had a larger turnout than the room could comfortably hold!

Acknowledgments for organizing goes to: Angela Bliss, Ellyn Enderlin, Mariama Dryak, Jukes Liu, Kelsey Aho, Olivia Lee, Kabir Rasouli, Vera Solovyeva, Sasha Leidman, Liv Heinecke, John Read, Chris Trivedi from the USAPECS side; and me and Roxanne Frappier on the permafrost side.

PYRN workshop at ICCRE-CPC, 2019

By Xiangbing Kong

The 18th International Conference on Cold Regions Engineering and the 8th Canadian Permafrost Conference (**ICCRE-CPC**) will be held at the Quebec City Convention Centre, in Canada, from August 18th to 22nd, 2019. The Permafrost Young Researchers Network (PYRN) will organize a half-day workshop, in collaboration with the Canadian Geotechnical Society, the Canadian Permafrost Association, the Canadian National Committee for the International Permafrost Association and the American Society of Civil Engineers. More information can be found at: <http://iccre-cpc2019.com/welcome>



BIENVENUE À QUÉBEC!

The 18th International Conference on Cold Regions Engineering and the 8th Canadian Permafrost Conference will be held at the Québec City Convention Centre, in Canada, from August 18th to 22nd, 2019. Sustainable infrastructure development and permafrost science, in a climate change context, will be the focus of the discussions of this international conference.

Join us in August 2019!

PYRN Stickers

By Xiangbing Kong

New PYRN stickers were designed and printed by the ExCom in 2018 and distributed at permafrost conferences, such as AGU 2018 and the ArcticNet ASM 2018. PYRN stickers are a good way to enable more young researchers to get to know PYRN during the international or regional permafrost conferences. If you are organizing a PYRN event and would like to get some stickers, please don't hesitate to contact us.

Permafrost Young Researchers Network

The Permafrost Young Researchers Network (PYRN) is fostering innovative collaboration and seeking to promote future generations of permafrost researchers.

<http://pym.arcticportal.org>



PYRN sticker

Frozen Ground newsletter

By Xiangbing Kong

The Frozen Ground (42) 2018, the News Bulletin of the International Permafrost Association (IPA), summarizes the activities that happened in the past year. PYRN contributed an overview of our task during the last year, and the final version of Frozen Ground newsletter has come out. More information can be found at <https://ipa.arcticportal.org/publications/frozen-ground>.



FROZEN GROUND 42 | 2018

- The 5th European Conference on Permafrost, pp. 3-4
- Action Group Reports, pp. 5-8
- Partner Organization, Standing Committee, and Interest Group Reports, pp. 9-14
- Conference previews, relevant updates, & organization information, pp. 14-18

Permafrost Young Researchers Network (PYRN)

BY HELENA BERGSTEDT, JANNIK MARTENS, XIANGBING KONG, SAMUEL GAGNON, SAMUEL WEBER, DENIS FROLOV, DMITRY NEKRASOV, MATTHEW WHITLEY, JOSEFINE LENZ, INGO HARTMEYER, MATTHIAS WINKEL, AND GEORGE TANSKI ON BEHALF OF THE PYRN EXCOM AND COUNCIL

The Permafrost Young Researchers Network aims to foster collaboration and promote future generations of permafrost researchers. PYRN supports its members with travel grants and highlights the work of outstanding members with awards. If you are a young permafrost researcher we encourage you to become a member by signing up at <https://pyrn.arcticportal.org/>. Use the tag @pyrn_official or hashtag #pyrn on Twitter, Instagram and Facebook to share updates and pictures with the PYRN community.

two outstanding presentations held by young scientists and organized a social event with local cuisine and a pub quiz. Thanks to many generous sponsors (IPA, Université franco-allemande, International Arctic Science Committee, NUNATARYUK, Petzl Foundation, Observatoire des Sciences de l'Univers de Grenoble,

program was a 1-day local excursion to the Brévent summit, featuring a breathtaking panorama of the Mont Blanc massif. At this event, junior and senior scientists shared their knowledge and passion about alpine mountain permafrost research in the French Alps. In conjunction with the conference, PYRN honored

Words from the President

BY HANNE H. CHRISTIANSEN, THE UNIVERSITY CENTRE IN SVALBARD, NORWAY

The IPA turned 35 years old in 2018, as the organization was formally founded in July 1983. This anniversary was nicely celebrated in

EUCOPS

The PYRN Workshop during EUCOPS was by far the largest activity PYRN organized this year with more than 150 participants. Many used this opportunity to meet other young permafrost enthusiasts and develop new connections. The workshop was also a forum for career design where senior scientists shared their experiences on topics

Scenes from the excursion to the Brévent summit during the PYRN Workshop at EUCOPS.

Frozen Ground (42) 2018

PYRN membership

By Denis Frolov and Helena Bergstedt

We have added some functionality to our website and members are now able to login and edit their profile. Has your affiliation or research area changed since you signed up for PYRN? Please have a look if your information is up to date and edit it if necessary. To access your profile, please visit: <https://pyrn.arcticportal.org/join-us/intranet>

PYRN is getting older - manuscript in Polar Record

By Helena Bergstedt and Evan Wilcox

A group of PYRN members from the current and previous executive committee published a paper summarizing the development of PYRN since its establishment in 2005. The short article is titled 'The Permafrost Young Researchers Network (PYRN) is getting older – the past, present, and future of our evolving community' and was accepted for publication in Polar Record is available here: <https://doi.org/10.1017/S0032247418000645>. This research note summarises PYRN's development since 2005 and the IPY's role, the first 2015 PYRN census and survey results, and PYRN's future plans to improve international and interdisciplinary exchange between young researchers.

IPCC review

By Xiangbing Kong

In Spring 2019, the Intergovernmental Panel on Climate Change (IPCC) opens the first order draft of the main assessment report AR6 to expert review. APECS (Association of Polar Early Career Scientists), YESS (Young Earth System Scientists) community, PYRN, WCPA (Young Professionals Network of the World Commission on Protected Areas) and PAGES ECN (Past Global Changes Early Career Network) are coordinating the next review by early career experts that will take place between April and June 2019. From PYRN, ExComm Members (Xiangbing Kong, Vice-President; Helena Bergstedt, President) and national representatives (Casey Beel and Sebastián Ruiz) take part in the cooperation work. A call for reviewers is open now with a deadline of March 1st, 2019. The online application form can be found at:

https://docs.google.com/forms/d/e/1FAIpQLSci9-K7nui1pMlmc7vVZpl_06Ra87QhZ-uQfkQCI9Znj3xfA/viewform

IPCC Homepage (<https://www.ipcc.ch/>)



ArcticNet 2018

By Evan Wilcox

This year's ArcticNet, which is the largest annual gathering of Arctic researchers and Northerners in Canada, again provided a great platform for a broad range of Arctic-based research. As in past ArcticNet meetings, hundreds of ECR's attended the day and a half of workshops and panel discussions (some of which were lead by PYRN ExComm and APECS board members) which covered a wide range of topics geared towards building the skills of the next generation of researchers. [See a video recap of Student Day here.](#) ArcticNet's interdisciplinary focus generates discussion between researchers and Northerners to help foster a more efficient working relationship which also addresses northerner's needs. Check out <https://twitter.com/ArcticNet/media> for a good recap of the week's events!

Articles



Most Viewed Paper and Post of Autumn 2018

By Evan Wilcox and Matthias

Winkel

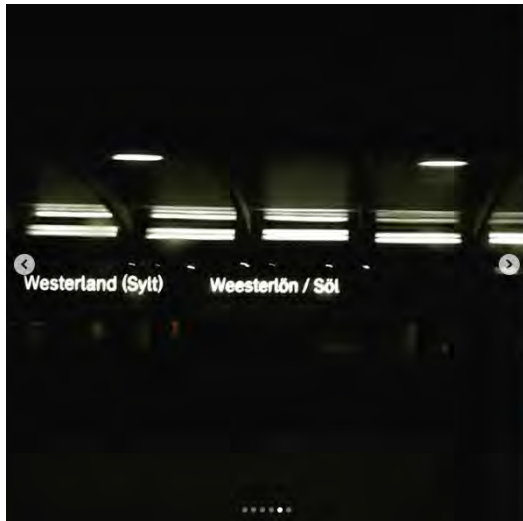
The most viewed article from our #APermafrostPaperADay series was a recent Nature Communications paper which assessed the vulnerability of Arctic infrastructure to permafrost degradation. "Our results demonstrate that one-third of pan-Arctic infrastructure and 45% of the hydrocarbon extraction fields in the Russian Arctic are in regions where thaw-related ground instability can cause severe damage to the built environment. Alarming, these figures are not reduced substantially even if the climate change targets of the Paris Agreement are reached.". Scary stuff! Check out "Degrading permafrost puts Arctic infrastructure at risk by mid-century" by J. Hjort *et al.* [here.](#)

Our most viewed post was advertising the circum-Arctic 2m digital elevation model available for free download from the [Polar Geospatial Center](#). DEM's of this accuracy are not often available in the Arctic from government sources, and collecting them at this accuracy at a large scale previously required expensive airplane-based LiDAR surveys. The high value of this product to permafrost researchers is foretold by the number of clicks this link got!



Recent posts from [PYRN on Instagram](#)

By Dmitry Nekrasov, Evan Wilcox, and Matthias Winkel



pyrn_official • Following
List auf Sylt

pyrn_official This week many #PYRN members are taking part in the CryoGrid modelling workshop, which is introducing new users to the model and also collaborating to improve all aspects of the model. #AWI has a lovely Gastehäuser to accommodate us on the island of Sylt. CryoGrid is a fully open, processed based, community developed permafrost model that is highly adaptable to new research questions. By the end of this week we will have a new GitHub repository as the model is transferring from MATLAB to the open-source programming language #Julia, which will increase run times by up to an order of magnitude.

Liked by ealevtina and 19 others
NOVEMBER 21, 2018



pyrn_official • Following

pyrn_official Recruiting new members to PYRN during the EU Nunataryuk meeting in Venice. Welcome Julia @pyrn_official

Liked by helenchenk and 18 others
OCTOBER 2, 2018



pyrn_official • Following
Venice, Italy

pyrn_official PYRN ice breaker at Nunataryuk annual meeting!

Liked by helenchenk and 15 others
OCTOBER 1, 2018



pyrn_official • Following

pyrn_official Abisko is possibly one of the most studied Arctic field sites, given that it's easily accessible and has a 100 year long history in Arctic environmental research. Research here mostly focuses on CO2 and CH4 fluxes from peat lands, using eddy covariance flux towers and other state-of-the-art techniques. Thanks to PYRN Vice-President @jannik_martens_ for the photo!

15 likes
SEPTEMBER 13, 2018

Follow us, tag us [@pyrn_official](#) and use hashtag [#pyrn](#) to spread your science snapshots around the community!

Awards and Fellowships

WESTON FAMILY PRIZE FOR LIFETIME ACHIEVEMENT IN NORTHERN RESEARCH

This prestigious \$100,000 prize is funded by the Foundation and awarded by the Association of Canadian Universities for Northern Studies and recognizes significant contributions that have helped to shape our thinking and understanding of the North. Prize winners Dr. Derek Muir (2018), Dr. Michel Allard (2017), Dr. John England (2016), Dr. Ian Stirling (2015), Dr. Charles Krebs (2014), Dr. John Smol (2013), Dr. Louis Fortier (2012), and Dr. Serge Payette (2011) have all made lasting contributions while cultivating the next generation of northern scientists.

Nominations for the 2019 Weston Family Prize for Lifetime Achievement in Northern Research will be accepted until January 31, 2019 through the Association of Canadian Universities for Northern Studies (ACUNS) website. More information can be found at <http://www.westonfoundation.org/our-initiatives/science-in-canadas-north/>

Upcoming Dates

Arctic Workshop 2019,

04-05 April, Stockholm, Sweden.

Main Conference topics: high-latitude Earth sciences,, archaeology, and hazards

More information can be found at <https://aw19.geo.su.se>

EGU General Assembly 2019,

07-12 April, Vienna, Austria.

Main Conference topics: disciplines of Earth, planetary and space science.

More information can be found at <https://www.egu2019.eu/>

International conference “Solving the Puzzles from Cryosphere” 2019,

15-18 April, Pushchino, Russia.

Main Conference topics: Geocryology, Paleoreconstructions, Permafrost soils, Permafrost hydrology etc.

More information can be found at <http://cryosol.ru/en/cryoconference2019en.html>

4rd International Symposium on Transportation Soil Engineering in Cold Regions 2019,

20-23 May, St. Petersburg, Russia.

Main Conference topics: Transportation infrastructure in Arctic and cold regions, Soil dynamics, Stability of slopes, landslides, debris flows and avalanches, frost heave, permafrost dynamics in changing climate etc.

More information can be found at <http://conf-geotech.wixsite.com/transoilcold2019>

18th International Conference on Cold Regions Engineering and 8th Canadian Permafrost Conference 2019,

18-22 August, Quebec City, Quebec, Canada.

Main Conference topics: Sustainable infrastructure development in a changing cold environment etc.

More information can be found at <http://iccre-cpc2019.com/>

The first Southern Hemisphere Conference on Permafrost (SouthCop) 2019,

04-14 December, Queenstown, New Zealand.

Main Conference topics: rock glacier, permafrost hazards, permafrost engineering, etc.

More information can be found at <https://www.southcop19.com/>

Stay up to date with PYRN social media

By Dmitry Nekrasov, Evan Wilcox and Matthias Winkel

Just a reminder that **PYRN** is active in a variety of social media channels! Follow us now!

We use platforms like Twitter, Facebook, and Instagram to communicate news about PYRN, articles, information on events and photos.



*Be part of the PYRN social media community and reach out to hundreds of permafrost enthusiasts! Use the tag **@pyrn_official** and hashtag **#pyrn** on Twitter, Facebook and Instagram on to share your updates or pictures via the '**PYRN**' account.*

This Newsletter was prepared by PYRN ExCom 2018-2020 team

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