

Steps to encourage collaboration and interdisciplinary research between early career researchers across Switzerland

Amy Macfarlane and Adrien Wehrlé

on behalf of APECS Switzerland

1. What are the major barriers to collaborative working?
2. What are the potential solutions to increase interdisciplinary work amongst ECRs?

www.menti.com and use the code: **11 58 75**



Category	Barrier	Potential solutions
Individual	Poor researcher connectivity	Regular events for ECRs
		Create databases of individual ECRs and their research
		Funding bodies and mentors make ECRs aware of complementary projects
	Time constraints and physical distance	Specific travel funds for ECR collaboration
		Support online forums and communities
Research	Practical difficulties sharing data	Create better tools and standards for data sharing
		Improve dialogue between overlapping projects to facilitate co-design
	Different terminology between disciplines	Facilitate knowledge sharing and normalize progress reporting between projects
Institutional	Hierarchy, competition	Supervisors, mentors to provide active support
	Lack of funding	Recognize alternative outputs and collaborations as research outputs
		Funding models to explicitly encourage interdisciplinary collaboration

What helped my collaborations:

Field work

- Collaborations started in the field and continued after returning
- Publishing open access datasets
- Aware of the complementary projects
- Good communication within the community (MOSAiC conference and monthly meetings with the MOSAiC ice team)

Conferences and workshops

- Interest in additional topics within scientific community; sustainability of field work (recognised as an alternative output)
- Meet other ECRs at APECS and SPI events and exposure to the wider community

Support

- Access to specific funding through SPI
- Active support from supervisor and mentors

What helped my collaborations:

As a research assistant

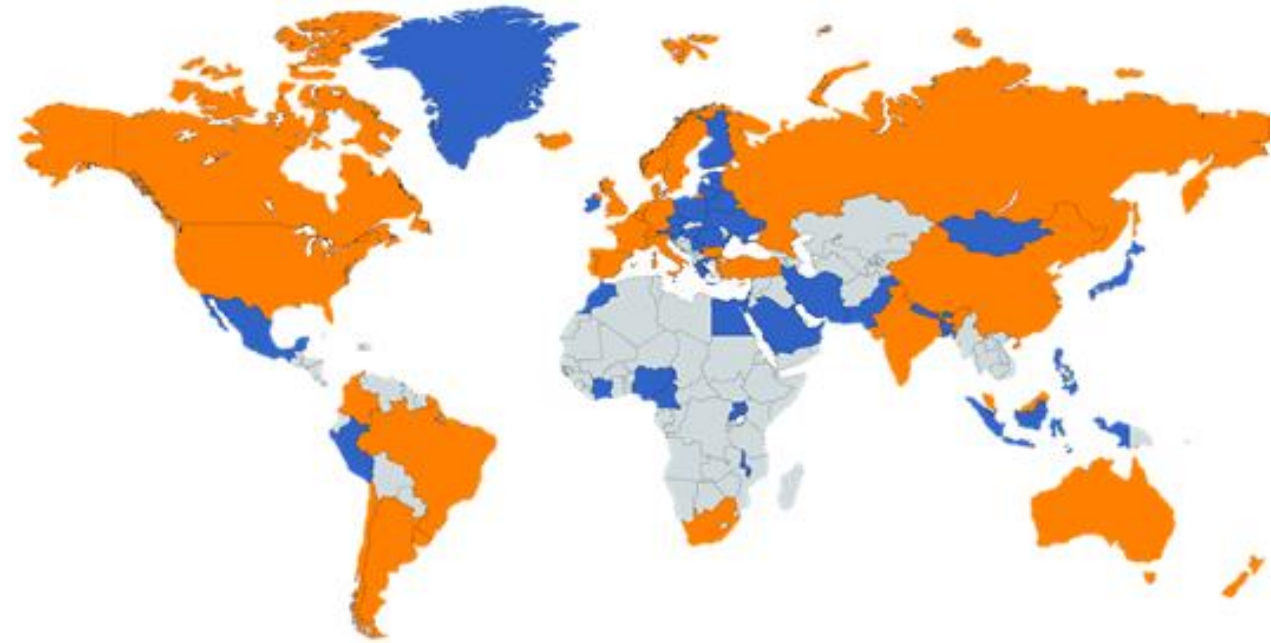
- Joined different labs
- Took part in different projects that I could actively contribute to

As a member of Early Career Scientist Associations

- Meet with ECS from many different fields
- Open source algorithm and software development

APECS is an international and interdisciplinary organization for early career researchers working in the **Polar and Alpine Regions** and the **wider Cryosphere** created in **2007**

Members: undergraduate and graduate students, postdoctoral researchers, early faculty members, young professionals, educators and others



Current membership: 4.200 from 78 countries

... in-person and online skill
and career development
training

**Online
Technical Training
Programme**

March/April 2021

Marine Robotics
3D Modelling, How to Build a Sea Robot
12 April, Polar Marine Robotics

Atmospheric Measurements
13 April, Atmospheric Measurements Aboard Research Ships

Mooring Operations
13 April, Mooring Operations in Polar Waters

Lab Management
14 April, Lab Management: My Lab is Moving!

Technical Science Support
14 April, Technical Science Support at the British Antarctic Survey

ARICE
Arctic Research Icebreaker Coasts

APECS
Association of Polar
Early Career Scientists

For more information,
please visit our website
www.apecs.is

**ARICE Webinar
Data Management**
Organized by APECS and AP
Moderation: Josefine Lenz (AWI, APECS & ARICE)

Halldór Jóhannsson (Arctic Portal & ARICE)
Introduction on Data Management: Policy, Best practices and Engagement with stakeholders

Øystein Godøy (Norwegian Meteorol. Inst.) and Stein Sandven (NERSC)
INTAROS data management practices: Meta Data and federated Search

Anseok Joo (Arctic Portal)
Data presentation and the ARICE 3D Icebreaker

Q&A



**MOSAIC
SCHOOL**

Training the next generation of Arctic System Science Experts

Tromsø – Central Arctic on
RV Akademik Fedorov –
Tromsø
16 Sept – 28 Oct 2019

AWI **APECS** **ARICE** **IASC** **CLIC** **YOPP**
YEAR OF
POLAR
PREDICTION

Josefine Lenz/AWI

... opportunities for members to
share their research and to
develop research collaborations

Examples: Webinars, APECS Online
Conference, topical Project Groups

SCIENCE & DIPLOMACY IN GREENLAND-US RELATIONS

Join the Association of Polar Early Career Scientists for an interactive webinar with leading experts.

Isoueq Holm Olsen
Minister Plenipotentiary for Greenland, Royal Danish Embassy, Washington DC

Josephine Nyman
Chief of the Greenland Research Council

Mark Nuttall
Professor of Anthropology, History, Geography, and Politics, University of Alberta

Kristian Nielsen
Associate Professor, Head of Centre for Science Studies, Aarhus University

Kristine Harper
Professor, Biology and P. Biology of Earth Sciences, University of Copenhagen

Ronald Doel
Associate Professor, Department of History, Royal Holloway University

14:00-16:00 GMT
28th May 2021
Zoom registration link:
<http://bit.ly/344W0xU>

APECS Science & Diplomacy Project Group



APECS Webinar: When Indigenous Meets Western

von APECS Webinars **8th Annual Polar Week 2021: March 14-20**

When Indigenous Meets Western

March 16th – 2pm GMT
Online-Zoom Webinar

58:20



APECS/YESS/YOPP AT ASSW2021

POLAR PREDICTION AND COLLABORATION IN THE ARCTIC

Registration: <https://assw2021.net/>

Session 1: Home Office (Fatigue) and Zoom Networking – COVID-19 and ECRs
Sunday 21 March 2021 from 06:00 – 07:30 GMT

Session 2: The 4 Essential Cs - Coordination, Communication, Community, and Collaboration
Sunday 21 March 2021 from 16:00 – 17:30 GMT

Session 3: Predict and Predictability – The Arctic YOPP
Sunday 21 March 2021 from 12:00 – 13:30 GMT

The benefits to climate science of including early-career scientists as reviewers

Mathieu Casado^{1,2}, Gwenaelle Grevin^{3,4}, Paul Rosenbaum^{2,4}, Jilda Alicia Nicolas Champollion^{2,5}, Sarah L. Connors¹⁰, Adrian Delgado^{11,12}, Alfio Katja Mintenbeck¹, Elvira Poloczanska¹, and Gerlis Fugmann^{1,2}

¹Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Telegrafenberg A5.1, 37603 Potsdam, Germany

²Association of Polar Early Career Scientists (APECS), Telegrafenberg A5.1, 37603 Potsdam, Germany

³Institut des Sciences de la Mer, Université du Québec à Rimouski, 31100 Rimouski, Québec, Canada

⁴Department of Business Studies, Uppsala University, Uppsala, 75131, Sweden

⁵Alfred Wegener Institute Helmholtz Centre for Polar and Marine Research, Am Handelshafen 12, 27568 Bremerhaven, Germany

⁶Department of Evolutionary Genetics, Leibniz Institute for Zoo and Wildlife Research, Am Handelshafen 17, 10315 Berlin, Germany

⁷Department of Evolutionary Genetics, Leibniz Institute for Zoo and Wildlife Research, Am Handelshafen 17, 10315 Berlin, Germany

⁸International Arctic Research Center, 28359 Bremen, Germany

⁹Climate Lab, University of California, Santa Cruz, Santa Cruz, CA 95064, USA

¹⁰IPCC Working Group I Technical Support Unit, University of Victoria, Victoria, BC V8W 2Y2, Canada

¹¹Institute of Marine Sciences, University of California, Santa Cruz, CA 95064, USA

¹²Antarctic Ecosystem Research Division, 8901 La Jolla Village Drive, San Diego, CA 92037, USA



BUTTERFLY EFFECT: SMALL CHANGES, BIG IMPACT!

APECS International Online Conference

May 2018



BREAKING BARRIERS

Promoting interdisciplinary approach to polar sciences

APECS INTERNATIONAL ONLINE CONFERENCE

MAY 2019



OPENING DOORS

Collaboration across knowledge systems

APECS INTERNATIONAL ONLINE CONFERENCE

MAY 2020



APECS Association of Polar Early Career Scientists

ONLINE CONFERENCE

Polar Science: Success Stories

From field and from home

... education and outreach activities

Examples: Polar Weeks in March and September, Antarctica Day, International Mountain Day



... upcoming events

Jungfrauoch excursion

Available funding for 15 members

1st or 2nd weekend in November

IGS International Symposium on Snow 2022

We will be there... come and say hello!

Mental health online workshop

Date TBC



*Please get in contact with us if you have ideas and
would like to help organise an event 😊*



Nicolas Jullien



Adrien Wehrlé



David Touchette



Amy Macfarlane

www.apecs.is