

## ArcTrain Guidelines for PhD students

Version: 17.2.2014

Dear colleagues!

With the first group of ArcTrain PhD students in place, I would like to take this opportunity to introduce a few important aspects of the ArcTrain curriculum, highlighting the nearest upcoming activities. These guidelines serve as a general overview for ArcTrain PhD students and their supervisors to help you to organise your research and study at your institutes in Bremen and at AWI and your participation in ArcTrain activities at large. Should you have any questions, just let me know!

Yours,

Michal Kucera, Speaker of ArcTrain

### For your information, this is the current list of PhD names and contact emails:

Nr	Project title	Supervisor	PhD student	Email
HB-1	Satellite remote sensing of Arctic multiyear sea ice	Notholt	Raul Scarlat	<a href="mailto:rauls@iup.physik.uni-bremen.de">rauls@iup.physik.uni-bremen.de</a>
HB-2	Sea ice modeling and data assimilation	Losch	Mischa Ungermann	<a href="mailto:Mischa.Ungermann@awi.de">Mischa.Ungermann@awi.de</a>
HB-3	Variability of Arctic sea ice, meltwater discharge and primary production	Stein	Henriette Kolling	<a href="mailto:henriette.kolling@awi.de">henriette.kolling@awi.de</a>
HB-4	North Atlantic variability in climate models	Prange	Andrea Klus	<a href="mailto:andreaklus@web.de">andreaklus@web.de</a>
HB-5	Exchange between western and eastern subpolar North Atlantic	Rhein	Tilia Breckenfelder	<a href="mailto:t.breckenfelder@uni-bremen.de">t.breckenfelder@uni-bremen.de</a>
HB-6	Internal wave - flow interaction in the western boundary current	Walter	Georg Voelker	<a href="mailto:voelker@uni-bremen.de">voelker@uni-bremen.de</a>
HB-7	Large-scale analysis of oceanic horizontal mixing hot spots	Kieke	Vasco Müller	<a href="mailto:vasco.mueller@uni-bremen.de">vasco.mueller@uni-bremen.de</a>
HB-8	Svalbard glaciers and oceanic heat advection through the Holocene	Hebbeln	Martin Bartels	<a href="mailto:mbartels@marum.de">mbartels@marum.de</a>
HB-9	Environmental processes in the Baffin Bay since the last ice age	Kucera	Rebecca Jackson	<a href="mailto:rjackson@marum.de">rjackson@marum.de</a>
HB-10	Habitat modeling of planktonic foraminifera	Schulz	Kerstin Kretschmer	<a href="mailto:kkretschmer@marum.de">kkretschmer@marum.de</a>
HB-11	Sensitivity of open-ocean convection to ice-sheet melting	Paul	Annegret Krandick	<a href="mailto:akrandick@marum.de">akrandick@marum.de</a>
HB-12	Tracing meltwater plumes using radiogenic isotopes	Kasemann	Valeriia Kirillova	<a href="mailto:vkirillova@marum.de">vkirillova@marum.de</a>

## ArcTrain Team

**Michal Kucera** ([mkucera@marum.de](mailto:mkucera@marum.de)) is the **speaker** of ArcTrain, responsible for overall coordination, representation, decisions and knowing all that needs to be known.

**Maren Walter** ([mwalter@physik.uni-bremen.de](mailto:mwalter@physik.uni-bremen.de)) and **Rüdiger Stein** ([Ruediger.Stein@awi.de](mailto:Ruediger.Stein@awi.de)) are the vice-speakers. The three of us make up the **coordination team**, who meets regularly, reviews the progress of ArcTrain, organise the qualification programme (courses and such like) and among other things also reviews your applications for conference support. Maren Walter is also responsible for **equal opportunities**. Please get in touch with her if you want to know more about what we can do for our female candidates to help you on your way towards a scientific career and to all our candidates in the difficult matter of work and family balance. These are not just empty words – we have dedicated resources every year to help you.

**Gabriella Wehr** ([gwehr@marum.de](mailto:gwehr@marum.de)) is assisting with all organisational matters around the financing of your research, travel and the general qualification programme. The ultimate word on the allocation of resources and payment of bills have **Anke Wöhljtjen** ([woehljtjen@uni-bremen.de](mailto:woehljtjen@uni-bremen.de)) in Bremen and **Ute Strackerjan** ([Ute.Strackerjan@awi.de](mailto:Ute.Strackerjan@awi.de)) at AWI.

**Michael Siccha** ([msiccha@marum.de](mailto:msiccha@marum.de)) is managing our website and he will also support the monthly ArcTrain „Arctic seminars“.

## Registering as a PhD student & membership in GLOMAR/POLMAR

All ArcTrain PhDs are expected to **register as PhD students** at the University of Bremen, either at the Faculty of Geoscience (FB5) or Physics (FB1). As members of ArcTrain, you will be supervised by a team and you are thus asked to prepare and sign, together with your main supervisor, a **written supervision agreement**. This document describes your project, the boundary conditions under which you will work and conduct research and it also names the members of your **thesis committee**. This will include at least two names in addition to your main supervisor, of which one would be the **Canadian partner** on your project.

With this information in hand, you will be able to start the process of registering as a PhD student in Bremen. This is handled by each Faculty in its own way and you are encouraged to ask your supervisor how to proceed.

Next to becoming a registered PhD student at the university, which entails you to such wonderful things as the subsidised student ticket for the buses and trams and trains in Bremen and around, you are much encouraged to enrol in the overarching Graduate School for your respective Institute. In Bremen, this will be the **GLOMAR** graduate school run at MARUM (<http://www.marum.de/en/GLOMAR.html>) and at AWI it will be either GLOMAR or the in-house Graduate School **POLMAR** (<http://polmar.awi.de/>).

Both graduate schools will accept you more or less automatically and you will not be required to subject to any additional curriculum – all you will need to do is to present your research at least once to the graduate school peers and participate once a year at the PhD days event. You will not be eligible to apply for additional funding, but then you do not need to, because ArcTrain has sufficient funds to pep up your curriculum. On the other hand, you will get access to the PhD community in your institute; a great chance to see beyond your own “Arctic” horizon and establish a strong network of peers. If you are interested to join one of these graduate schools – speak to your supervisor.

## **ArcTrain Associated PhD Students**

Students funded through other programmes, whose research is aligned with the aims of ArcTrain may apply to become associated with ArcTrain. Such students will first submit an application form, explaining their motivation to join ArcTrain and stating to what degree they will be able to follow the ArcTrain curriculum. The applications are considered by the ArcTrain coordination team. Accepted associated PhDs will gain preferential access to all ArcTrain activities and, pending availability, are eligible to apply for funding of their qualification programme.

## **ArcTrain Curriculum**

Hold your breath - you have signed up for a whopping three years of research, learning, networking, international travel, expeditions, cruises and career building in the exciting and relevant framework of Arctic science. Your curriculum will involve the following elements; the details will be set during your first thesis committee meeting and you will be able to propose courses that you need.

- Several months research stay with your Canadian partner
- Participation in Annual ArcTrain Meetings and training workshops; the first is planned for May 2014 in Bremen
- Arctic climate change course at a polar station in Northern Québec
- Participation at a Floating University
- Training and practice in Science Communication
- Soft skills and Expert skills training tailored to your needs; some of these are obligatory and their dates for 2014 are listed below
- Participation in monthly Arctic seminars in Bremen
- Presenting your results in at least two international conferences

## ArcTrain Funding

Being member of ArcTrain, you will be supported in various ways towards completing the ambitious curriculum. You will **get support** for:

- Travel and subsistence during your research stay in Canada
- Travel to all ArcTrain annual meetings
- Participation at Floating University and Arctic Course in Quebec

You will be able to **apply for support** for:

- Participation at international conferences and workshops
- Support for equal opportunities measures
- The possibility to apply for 3 to 6 months of research startup grant, provided you submitted within three years

## ArcTrain Dates for 2013 - 2015

A large number of ArcTrain activities had to be planned ahead, so please take note of the following dates; these refer to **mandatory** elements of your training:

16.12.2013	ArcTrain kick-off meeting, AWI
24.1.2014	Prof. Dr. Peter Richter, Prof. Dr. Carmelita Görg „Good Scientific Practice“, 10 am, MARUM 2070
25-27.3.2014	ArcTrain retreat, Team building & training in Project and Data Management and Good Scientific Practice
31.3.2014	GLOMAR Thesis Workshop I - Getting started (all you need to know about PhD research and PhD Thesis at this stage)
5-6.5.2014	ArcTrain Annual Meeting I, Bremen; including the first thesis committee meeting for all ArcTrain PhD students
7-14.5.2014	ArcTrain Annual Training Workshop I: Climate processes and methods primer, Bremen
May or October 2015	Floating University, most likely onboard the RV Polarstern
July 2015	Annual Training Workshop II, Montreal, followed by field course: The Arctic beyond Oceans and Ice Sheets, northern Quebec