



PEI 2015 Hannover

www.polareducator.org

EDUCATION MEETS SCIENCE

BRINGING POLAR RESEARCH INTO THE CLASSROOMS



- + Workshops
- + Conferences
- + Movie Show
- + Masterclasses
- + Snap Talks
- + Poster Exhibition

APRIL 1-4 | Hannover GERMANY

Sponsored by:

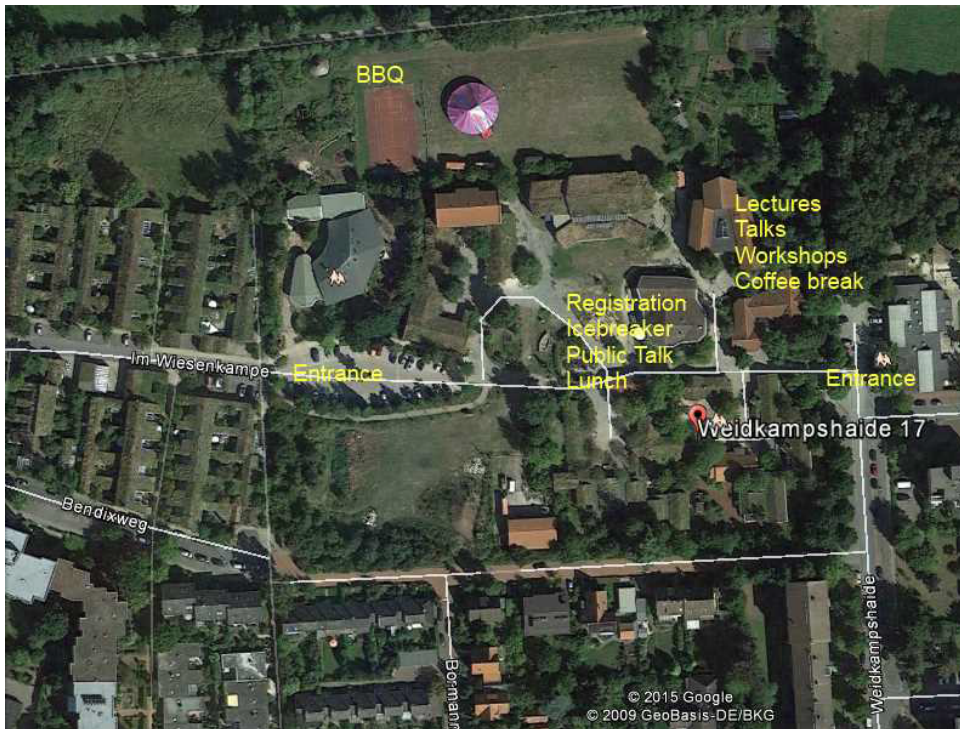


STUDENTS ON ICE

• Celebrating 15 years of Polar Education •



ALFRED-WEGENER-INSTITUT
HELMHOLTZ-ZENTRUM FÜR POLAR-
UND MEERESFORSCHUNG





INTERNATIONAL WORKSHOP 2015

EDUCATION MEETS SCIENCE: BRINGING POLAR RESEARCH INTO THE CLASSROOMS

Date: Wednesday 1st -Saturday 4th 2015

Location: Freie Waldorfschule Hannover-Bothfeld
Weidkampshaide 17
D-30659 Hannover
Germany

MAP:

<https://www.google.com/maps/place/Freie+Waldorfschule+Hannover-Bothfeld/@52.4152926,9.7896833,13z/data=!4m2!3m1!1s0x47b00cf0825d15e3:0x239704d6cbc213ec>

Organizers: Inga Beck (geb. May), Rainer Lehmann, José Xavier and Louise Huffman

Local student organizing committee: Caroline Brückner, Jule Bücking, Elske Düsenberg, Tabea May, Wiebke May, Tobias Much, Sebastian Preuth

Music: Lucatina Baruth

Organizations: Freie Waldorfschule Hannover-Bothfeld, Alfred Wegener Institute (AWI), Polar Educators International (PEI), University of Coimbra

Endorsed by: British Antarctic Survey (BAS), International Permafrost Association (IPA), Association of Polar Early Career Scientists (APECS), Scientific Committee on Antarctic Research (SCAR-CBET), International Arctic Science Committee (IASC), The Climate and Cryosphere (CliC), Deutsche Gesellschaft für Polarforschung (DGP), Coole Klassen, ICED (Integrating Climate and Ecosystem Dynamics of the Southern Ocean)

Sponsored by: Students on Ice, Alfred Wegener Institute, Deutsche Gesellschaft für Polarforschung (DGP)

Directed to: International teachers/educators (that have students between 6 and 19 years old)



Program

Program during the whole workshop:

- Photo exhibition Antarctica (Melanie Hubach)
- Poster exhibition (Showing activities / events of Polar Teachers)
- Polar drawing exhibition of students

Wednesday 04-01-2015

| | |
|---------------------|--|
| 15.00 -17.00 | Closed Meetings (PEI, Coole Klassen) |
| 17.00 -18.00 | Registration Icebreaker (for participations, students, teachers and parents of the school) Welcome word from the school's representative |
| 18.00 -19.00 | Public Talk Antony Jinman: trips to the North- and South Poles |
| 19.00 | Finger Food |



Thursday 04-02-2015:

TOPIC OF THE DAY: GEOSCIENCE AND BIOLOGY IN POLAR REGIONS

| | | |
|---------------------------|--|----------------------------------|
| 8:30 – 9.00 | Registration—Hang posters in assigned places | |
| 9.00 – 9.30 | Welcome: Inga Beck, Rainer Lehmann, Jose Xavier & Louise Huffman | |
| Lectures | | |
| 9.30 – 10.00 | Arctic warming and its impact on glaciers, sea ice and permafrost (Hans-Wolfgang Hubberten) | |
| 10.30 - 10.45 | Biology in Polar Regions (Jose Xavier) | |
| 10.45 – 11-00 | Laymen and school kids monitor glaciers in Iceland (Oddur Sigurdsson) | |
| 11.00 - 11.10 | Introduction to Education through Expedition (Antony Jinman) | |
| 11.10 – 11.30 | <i>Coffee break/visit posters</i> | |
| 11.30 – 11.45 | Introduction PEI (Louise Huffman, Gary Wesche, Matteo Cattadori) | |
| Educators Talks | | |
| 11.45 – 13.00 | 1145 Gary Wesche: Researchers Experiences – gentoo penguins 1200 John Wood: Exploring Patterns of Soil Organic Matter Decomposition with Students and the Public through the Global Decomposition Project (GDP) 1215 Markus Eugster & Elena Sparrow: GLOBE – Seasonal Changes in Polar and Other Regions 1230 Ekaterina Sleptsova : Projects from Belogorskaya | |
| 13.00 – 14.00 | <i>Lunch/visit posters</i> | Site meeting ICARP III with IASC |
| Hand-on activities | | |
| 14.00 – 15:15 | Nature of Science: Hypothesis Card Game (Louise Huffman) Activities from IPY-- Glacier activities (Louise Huffman & Dave Grant) | |
| 15.15 – 15.30 | <i>Coffee Break</i> | |
| 15.30 – 17.00 | Eco-chains Arctic Crisis and SMARCTIC (Elena Sparrow) | |
| Discussion/ Panel | | |
| 17.00 – 17.30 | How can we establish a system to evaluate our work with polar education? How can we see and measure the outcomes? | |
| 18.30 | <i>Dinner at local restaurant</i> | |



Friday 04-03-2015

TOPIC OF THE DAY: CLIMATE AND SOCIETY IN POLAR REGIONS

| | |
|----------------------------|---|
| 6:45-8:00 | !!!Fun Run (Walk)—5K!!!! (for all participants & volunteers!!) |
| Lectures | |
| 9:00 – 9.30 | Antarctica matters to everyone (Peter Clarkson) |
| 9.30 – 10.00 | Climate Change in the Polar Regions (David Carlson) |
| 10.00 – 10.15 | Arctic societies and cultures (Gerlis Fugmann) |
| 10.15 – 10.30 | Introduction Coole Klassen (Rainer Lehmann & Franz Tessensohn) |
| 10.30 – 10.45 | Introduction to the International Polar Foundation (Liz Pasteur) |
| 10. 45 – 11.10 | <i>Coffee break/visit posters</i> |
| Educators Talks | |
| 11.10 – 12.30 | 1130 Lise Fivez: Outdoor Education and Traditional Knowledge: A match made in heaven? 1145 Patricia Azinhaga & Jose Xavier: Polar Scientist and Education PROPOLAR educational programs 1200 Caitlin Munroe, Samuel Allsup, Blair Rice: Outreach partnership between two high school students and a local elementary school 1215 Janet Warburton and Sarah Bartholow: Best practices of teacher field experience programs |
| 12:30 – 12:45 | How to freeze water in 20 seconds (Tabea May, Sebastian Preuth: students) |
| 12.45 – 13.00 | Outcomes ICARP III site meeting (Inga Beck) |
| 13.00 – 14.00 | <i>Lunch/visit posters</i> |
| 14.00-14.45 | <i>Poster Session—talk to the authors of the posters</i> |
| Hands-on activities | |
| 14.45 – 16.15 | Climate Misconceptions Matching (Louise Huffman) Invent-a-Word (Louise Huffman) Equipment from an Icebreaker (Gerto Bal) |
| 16.15 – 16.30 | <i>Coffee Break</i> |
| Discussion/ Panel | |
| 16.30 – 17.30 | Polar Education: Where do we go from here and how do we know when we get there? |
| 17.30 – 18.00 | Wrap up / Closing Ceremony/take down posters |
| 18.30 | An evening with Students on Ice: <i>Barbeque</i> <i>SOI activity</i> |



Saturday 04-04-2015

Local excursion about ice aged periglacial features in the surrounding of Hannover organized by Rainer Lehmann

Poster presentations:

| Last Name | First Name | Poster Title |
|-------------|--------------|---|
| Alessia | Cicconi | A Teacher on the Ice: From classroom to Antarctica and back |
| Apostolova | Denitsa | APECS Bulgaria |
| Bal | Gerto | Authentic Teaching and the Lifelong Impact on Children |
| Beltrami | Maria Laura | Scienze Polari |
| Calabretta | Maria | Teaching polar science to primary students |
| Djordjeivc | Manojle | |
| Ferdorov | Eugene | Arctic projects of the Republic of Sakha (Yakutia) |
| Kaiser | Wiebke | The Lena River Delta Expedition |
| Nikolaeva | Anna | International Arctic Centre of Culture and Arts |
| Realdon | Giulia | From science classroom to the Arctic: my experience as a "Teacher at Sea" |
| Samuelson | Kyle | Robotics in Extreme Environments |
| Schmoker | Bill | Bringing Polar Experiences Back to the Classroom |
| Snowball | Minnie Molly | Youth Arctic Coalition |
| Soto Ortega | Alfredo | GAIA - Antarctic an educational model of Antarctic culture in Chile |
| Treffeisen | Renate | The school project - Maritime Centre Elbe Islands (MZE) |
| Williams | Cheryl | Polar Science - Designing a High School Science Course |
| | | |



PEI 2015 Hannover www.polareducator.org



PEI 2015 Hannover

EDUCATION MEETS SCIENCE

BRINGING POLAR RESEARCH
INTO THE CLASSROOMS

www.polareducator.org

APRIL 1-4 | Hannover
2015 GERMANY

- + Workshops
- + Masterclasses
- + Conferences
- + Snap Talks
- + Movie Show
- + Poster Exhibition



Collaborate

Promote collaborations between educators and scientists



Discuss

Discuss the future vision of Polar Educators International



Improve

Support scientists in increasing public communication skills



Update

Update and exchange key information with polar educators

Registration

50€

Make your registration
www.polareducator.org/news/pei
until

15 December 2014

Organizations



Ant-ERA



Contact Us

ingamay@awi.de
rainer.lehmann@gmx.net
polareducators@gmail.com

www.polareducator.org

#polareducators

Freie Waldorfschule
Hannover-Bothfeld
Weidkampshaide 17
D-30659 Hannover
Germany