Greetings,

I would like to begin this month’s newsletter with a word of thanks. About three weeks ago, I learned that BPRC was the recipient of a generous donation from Betsy Salt and her brother Jeffrey Salt in honor of their father and his interest in meteorology. The donation will fund the purchase of a weather station for the roof of Scott Hall to be used as part of our education and outreach program. Wes Haines, Aaron Wilson, and I have wanted to increase awareness of the importance of data collection and meteorological forecasting on tours. The donation from the Salt family will allow us to install a first-rate station on the roof, purchase additional materials for a portable display, and broadcast real-time measurements from the station via the internet. Another benefit is that the tower on which the station will be installed can serve as a platform for other projects. An undergraduate student has already requested its use to collect samples for measuring isotopes in precipitation. We anticipate installation of the weather station will occur this summer.

On a different note, I was approached by two high school teachers about student internships at BPRC. If your group is interested in hosting a summer intern, please drop me a line at cervenec.1@osu.edu. I can work with your group to identify the skill set a student needs to contribute to your research.

Lastly, BPRC created a mobile exhibit on the ice core drilling program that we will take to Westerville’s Starry Night event on April 6th (see flyer on the last page of this newsletter) and COSI on April 26th from 11 a.m. to 1 p.m. Thanks to Ryan Crumley, Paolo Gabrielli, Roxana Sierra-Hernandez, Emilie Beaudon, and Jacob Hoelscher for helping to make this display a reality.

Regards,
Jason Cervenec

Upcoming Events

Mining citations: tips and tricks for searching Web of Science and Google Scholar
Friday, April 11th at noon in the BPRC Learning Center
Want to know who is citing you? What about finding collaborators who have similar research? Come and learn tips about Google Scholar and Web of Science from setting up alerts, to understanding your h-index, to modifying Google Scholar and accessing OSU materials from anywhere. This session will be presented by Meris Mandernach, Head of Research Services of the University Libraries.

Tundra Talk, Polar Pondering, Glacier Gab, Mountains Musing? (NEW EVENT)
Wednesday, April 16th at 10 a.m. in the BPRC Learning Center
We are still looking for a creative name for this once-a-month social event. Students, post-docs, researchers and anyone else associated with BPRC is invited to join us for Stauf’s coffee, a selection of teas, doughnuts, and fruit salad on the morning of April 16th. There will not be an agenda for this event but rather time to chat with colleagues and catch up with friends.

Next BPRC Public Tour
Wednesday, April 23rd at 7 p.m. in Scott Hall
The next BPRC public tour will be held in April. Anyone is welcome to attend but needs to RSVP at http://tinyurl.com/mfmc3e4
Byrd Bites Brown Bags for Winter Semester
All brown bags take place in the BPRC Learning Center (177 Scott Hall) at noon. This is a friendly environment to share your research or field experiences. Please e-mail cervenec.1@osu.edu if you would like to participate. We are looking for presenters for both this May and next autumn.

Thursday, March 27th • Kirstin Werner
Changes in Arctic sea level and Atlantic heat flux to the Arctic Ocean via the eastern Arctic Gateway during the past 12,000 years. Causes and consequences on sea-ice conditions in the eastern Fram Strait

Tuesday, April 15th • Karen Pon
Life and forecasting in Antarctica

Monday, April 21st • Kelly Lazar
Talk TBA

Recent Events
Latin America Night Thank You
We had a great turnout for this year’s Latin America Night on March 6th. This annual program is sponsored by BPRC and partners in the Center for Latin American Studies, School of Earth Sciences, and Department of Geography. A special thank you is extended to presenters Doug Alsdorf, Alvaro Montenegro, and Laura Kissel; tour guides Ryan Crumley, Aaron Wilson, Stacy Porter, Roxana Sierra-Hernandez, Emilie Beaudon, Lonnie Thompson, and Ellen Mosley-Thompson; and the team of Lynn Everett, Michele Cook, Lynn Lay, Tom Kassebaum, Wes Haines, Jacob Hoelscher, and Ryan Cummings who made sure there was food, the spaces were setup, and the AV equipment was in good order.

State of the Climate Event at Ohio Statehouse

BPRC researcher Lonnie Thompson and former U.S. Representative for South Carolina’s 4th congressional district Bob Inglis addressed an audience of legislators and faith community representatives at the State of the Climate event held at the Ohio Statehouse on March 18th. You can see Lonnie Thompson’s interview with NBC Channel 4 following the event online at http://www.nbc4i.com/story/25009185/state-of-the-climate.
Denman Undergraduate Research Forum Participants

Congratulations to the following students and their advisors whose research was featured at the Denman Undergraduate Research Forum on Wednesday, March 26th. This year featured more than 500 students who have carried out substantial independent research. More information can be found at denman.osu.edu.

Daniel Ardrey  Advisor: Anne Carey
Soil Development of Reclaimed Mine Lands in Southeastern Ohio

Rob Battista  Advisor: Bryan Mark
Assessing Changing Water Quality in Peru as Glacial Cover Recedes
Rob earned 2nd place in the Environmental Science category.

Paige Clark  Advisor: Joel Barker
Ecosystem Processes Revealed by Buried Forest Material, Walnut Woods, Ohio

Shannon Hibbard  Advisor: Lawrence Krissek
Effects of Transport on Gravel Composition in a Proglacial Environment

Michael Kellum  Advisor: Larry Krissek
The Mid-Pleistocene Record of Ice-Rafting at IODP Site 1308, Central North Atlantic:
Links Between IRD Abundance Variations and Climatic Transitions

Julia Young  Advisor: Anne Carey
The Role of Bedrock Geology on the Aqueous Chemistry in Cantabrian Rivers

Your Help Is Needed
Scienice Olympiad State Tournament Volunteers Needed – Last Call
Byrd Polar will once again be hosting the Science Olympiad Dynamic Planet event for middle and high school students on campus on Saturday, April 26th. This state tournament brings together teams of some of the state’s most talented students to compete in 23 events spread over 7 hours. Your expertise is needed! We are looking for volunteers for both the morning and afternoon sessions. You do not need to have prior experience with Science Olympiad. E-mail Jason Cervenec at cervenec.1@osu.edu with questions or to sign up.

Metro School “Water” Design Challenge Seeks Volunteers
Metro School students are undertaking a school-wide project that is focusing around a theme of water (conservation, accessibility, purification, etc.). They are looking for partners on campus to work with students at the school on these projects - either to evaluate their work or help them conceptualize solutions to their posed problems. The school is kicking off the design challenge April 1st and final presentations will be on May 2nd. If you are interested in participating, please contact Metro teacher Jason McKendrick at mckendrick@themetroschool.org.
News

BETHA

Bryan Mark, Jason Cervenec, and Aaron Wilson are part of a team that successfully competed for a BETHA (Battelle Engineering, Technology and Human Affairs Endowment) grant. This is a multidisciplinary project including colleagues from the Department of Civil, Environmental and Geodetic Engineering and the Department of Computer Science and Engineering. The project, entitled HEATED (Harnessing Education and Technology for Environmental Detection), will utilize a Maymester course in which students will design and build a device to collect geo- and time-tagged temperature data when deployed from moving vehicles and create a database to store and assimilate data collected. The course will provide a device prototype, a course that is innovative and can be replicated, data to better understand the urban heat island and a multidisciplinary team prepared to continue the research through other funding opportunities.

Multimedia of Interest

3D iPhone App
Thank you to Declan DePaor from Old Dominion University for sharing this tool with us. Autodesk has a new application that allows you to take multiple photos of an object and create a 3D image from them. Declan and his student ran tests and concluded that the results were almost as good as those captured by professional-grade equipment. The big difference is the cost; the application from Autodesk is free. Check it out at http://www.123dapp.com/catch.

BPRC Owns Copies of Chasing Ice, Glacial Balance, and Last Call at the Oasis
If you would like to use segments of any of these movies in your classes, please contact Lynn Lay in the Goldthwait Polar Library at lay.1@osu.edu. BPRC owns copies of all three.

Climate Change Documents from AAAS and NAS/Royal Society
The National Academy of Sciences and Royal Society have released a joint publication on climate change for decision makers, policy makers, educators and other individuals looking for authoritative information. Download a copy at http://nas-sites.org/americasclimatechoices/events/a-discussion-on-climate-change-evidence-and-causes/

Runoff Model Online
Last summer, Michael Durand and Jason Cervenec were part of a team that created a curriculum and instructional methods used for a one-week geosciences workshop for elementary, middle, and high school teachers. As part of that initiative, the team created an online application that allows educators and their students to model watersheds after collecting information online and in the field. Previously, the only way to do this was using HEC-HMS, software with a steep learning curve. While the application is only designed for education, not research, it should enhance instructional opportunities to geosciences teachers at all levels. You can access the application at http://bprc.osu.edu/resources/water_runoff_model/.
IMPENDING DEADLINES...

NSF

Antarctic Research 13-527
Due 4/15/14

Antarctic Artists and Writers Program 13-540
Due 5/1/14

Research Experiences for Undergraduates (REU) 13-542
Due 5/23/14

Hydrologic Sciences 13-531
Due 6/2/14

SBE Doctoral Dissertation Research Improvement Grants 11-547
Due 7/15/14

Geobiology and Low-Temperature Geochemistry 09-552
Due 7/16/14

Sedimentary Geology and Paleobiology 12-608
Due 7/17/14

NSF Earth Sciences Postdoctoral Fellowships (EAR-PF) 13-548
Due 7/18/14

Faculty Early Career Development (CAREER) Program 14-532
Due 7/23/14

Geo and SBE (OSU internal intent to submit deadline is 4/8/14)

NASA

Earth Science Applications: Water Resources

NNH13ZDA001N-WATER
Due 4/30/14

ROSES 2014: IceBridge Research

NNH14ZDA001N-ICEBR
Due 5/1/14

Ohio EPA

Ohio Environmental Protection Agency

General Grant Program - Office of Environmental Education
Due 7/15/14

Ohio Environmental Protection Agency

Ohio Environmental Education Foundation Mini Grant
Due 7/15/14
STARRY NIGHT
WESTERVILLE

APRIL 6 2014
2-6 PM FREE
FAMILY FESTIVAL
WESTERVILLE SOUTH HIGH SCHOOL

The world is in your hands.

FEATURING: SkyDome Theater, Tom Burns from Perkins Observatory, Musician Tim Kaiser, Minecraft, Ohio Wildlife Center, Robotics, Dawes Arboretum, Inniswood Metro Garden, The Fuse Factory, Columbus IDEA Foundry, Columbus Astronomical Society, Ohio Bio products Innovation Center, Eco-Car2 and more!

www.westervillepartnersforeducation.org/starry-night