

Dr. Bernhard Peucker-Ehrenbrink

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EDUCATION:

- Dr. rer. nat. 1994 Max-Planck-Institut für Chemie, Abteilung Geochemie & Johannes-Gutenberg-Universität, Mainz, Germany, Advisor: AW Hofmann (Geochemistry).
Diplom 1989 Georg-August-Universität Göttingen, Germany, Advisor: H-J Behr (Geology).
Vordiplom 1985 Technische Universität Clausthal, Clausthal-Zellerfeld, Germany (Geology).

PROFESSIONAL EXPERIENCE:

Department Chair, Marine Chemistry & Geochemistry Department (since 6/2017); Senior Scientist (since 1/2010); Tenured Associate Scientist (5/2004–12/2009); Associate Scientist without tenure (6/2000–5/2004); Assistant Scientist at WHOI (7/1996–6/2000); WHOI Postdoctoral Scholar, Woods Hole, USA (11/1994–6/1996); Max-Planck Research Fellow, MPI für Chemie, Mainz (6/1994–11/1994); Guest Student, Dept. Geol. & Geophys., WHOI, Woods Hole (10/1993–12/1993); Graduate Student, Max-Planck-Institut für Chemie, Mainz (4/1991–7/1994); Civil Service, Internal Medicine, University Medical Center Göttingen (12/1989–3/1991); Analytical Assistant, Univ. Göttingen, Germany (6/1989–12/1989); Teaching Assistant, Univ. Göttingen, Germany (4/1986–7/1988).

AWARDS/HONORS:

2013 WHOI's Institutional Leadership Development Award; Sitka Sound Science Center – Scientist in Residence Fellow (October 2012); Adjunct Faculty Member, Faculty of Geography, University of the Fraser Valley, Abbotsford, B.C., Canada (Jan. 2012–Dec. 2014; renewed Jan. 2017–Dec. 2019); Coastal Ocean Institute Fellow, WHOI (2010–2013); Doherty Chair in Education, WHOI (2009); Associate Scientist at the Observatoire Midi-Pyrénées, Toulouse, France (4 months *Poste Rouge*, CNRS, 2008); Visiting Scholar at the Institute for Research on Earth Evolution (IFREE, JAMSTEC), Yokosuka, Japan (2007); 1994 WHOI Postdoctoral Scholarship (Advisors: MD Kurz, GE Ravizza, N Shimizu, SR Hart); Doctoral Dissertation Prize of the Johannes-Gutenberg-University in Mainz, Germany (1994).

PROFESSIONAL AFFILIATIONS:

American Association for the Advancement of Science, American Geophysical Union, The Geochemical Society, European Union of Geosciences, Deutsche Mineralogische Gesellschaft, Hudson Riverkeeper, Association for the Sciences of Limnology and Oceanography.

RESEARCH INTERESTS:

Element/isotope exchange fluxes and processes between mantle, oceanic crust, continental crust and seawater; Marine isotope records; Continental weathering; Flux of extraterrestrial matter to Earth; Dispersal of anthropogenic and volcanogenic platinum group elements; Global Rivers Observatory.

PROFESSIONAL ACTIVITIES:

WHOI (Non-education related):

Department Chair: Dept. Marine Chemistry & Geochemistry (since 6/2017).

Interim Director: Northeast National Ion Microprobe Facility (NENIMF, 10/2003–12/2005).

Chair/Co-chair: ICPMS Facility Steering Committee (5–8/2008, 1/2009–5/2017), WHOI Diversity Committee (2007–2009), Scientific Staff Executive Committee (SciSEC, 2007–2008), Mentorship Committee: Olivier Rouxel (2006–2009),

Rachel Stanley (2009-2014), Ad Hoc Review Committees: Sune Nielsen (untentured Assoc. Sci., G&G, 2014/15), Bill Thompson (untentured Assoc. Sci., G&G, 2010/11), Glenn Gaetani (untentured Assoc. Sci., G&G, 2004), Hiring Committees: “Non-traditional Isotope Geochemistry” (MC&G, 2004), “Geomicrobiology” (MC&G, 1998).

Search Committee Member: “Isotope Geochemist” (G&G, 2009-2010), “Carbon Cycle Geochemist” (MC&G 2009-2010), “NENIMF Director” (MG&G, 2004-2005), “Upper Ocean Processes” (MC&G, 2003), “Isotope Geochemist” (MG&G, 2001-2003), “Open Search” and “Upper Ocean” (MC&G, 1999-2001).

Other Committee Memberships: Member of WHOI’s Advisory Committee on Ethics, Conflicts and Security (ACECS); Member of WHOI’s Business Analysis Task Force; WHOI’s Representative on the Consortium of Universities for the Advancement of Hydrologic Science, Inc. (CUAHSI, since 2015), Dave Chapman Lecture Series Committee (2007-2012), Scientific Staff Executive Committee (SciSEC, 2006-2009), NENIMF Advisory Committee (2006-2009), Proposal Review Committee “Green & Hiam Innovative Technology” (2005), NENIMF Management Restructuring Committee (2005), Proposal Review Committee “Deep Ocean Exploration Institute” (2005), Internal Ad Hoc Review Committee “Katrina Edwards” (untentured Assoc. Sci., 2003), Mentorship Committees: Elisabeth Kujawinski (2005-2010); Liviu Giosan (2006-2012); Sune Nielsen (2011-2017); Horst Marschall (2011-2016); Frieder Klein (2012-2017), NER-COSEE Survey Evaluation Committee (2003), NENIMF Oversight Committee (with T Grove, SR Hart, F Spear, J Webster, 7/2002-10/2003), Safety Committee (MC&G, 2002-2003), ICPMS Facility Steering Committee (with L Ball, R Francois, SR Hart, T Horner, S Nielsen, L Robinson, O Rouxel, W Thompson, S Thorrold, M Saito, KWW Sims, 2002-2017), PIMMS (Plasma Ionization Multi-collector Mass Spectrometer) Evaluation Committee (2000-2001), ICP-Facility Committee (with L Ball, R Francois, G Ravizza, 1997-2002).

Hiring Supervisor: Ms. Gretchen Swarr (Res. Asst.II, ICPMS Facility, 2014); Dr. Qianli Xie (Res. Spec., ICPMS Facility Manager, 2007-2008).

Presentations/Outreach: Presentation to the WHOI Paul M. Fye Society “The Global Rivers Observatory: studying the world’s rivers to assess the planet’s health” (J.E. Jonsson Center, 08/24/2016); Presentation on the geology of New York City during an evening on a tug-boat on the lower Hudson River (06/17/2014); Cartogram simulation of weekly global river water discharge into the coastal oceans (<https://dl.dropboxusercontent.com/u/58785631/cartogram/animation.html>); Interview with Anne Casselman (Vancouver, B.C.) on the river water archive of the “Global Rivers Observatory” (05/21/2013, together with Robert Spencer [WHRC]); Interview with Regner Hansen on the “Global Rivers Observatory” for GLOBUZZ, Copenhagen, Denmark (04/22/2013), published on May 24, 2013 by “Weekendavisen”, #21, page 12 (Denmark) under the title “Klodens vener” (www.weekendavisen.dk); Interview for KCAW (Raven Radio, Sitka, AK) “Visiting scientist hopes you can help study Sitka River” by Ed Ronco (10/17/2012; <http://www.kcaw.org/2012/10/17/visiting-scientist-hopes-you-can-help-study-sitka-river/>); Interview for the Canadian Geographic by Anne Casselman (10/25/2012), fact checking by Lillianne Cadieux-Shaw (04/29/2013), published in the Canadian Geographic (June 2013, p. 52-61) “Taking the pulse of the river – Follow the team of specialists diagnosing the ills of British Columbia’s Fraser River” (http://www.canadiangeographic.ca/magazine/jun13/british_columbia_fraser_river.asp; by Anne Casselman, with photographs by Chris Linder); Multiple visits to elementary and high-school classes in Sitka, AK, to engage students in river research (river sampling protocol <http://vimeo.com/63145463>). Interview for COSEE “Broader Impact Wizard”, by Ari Shapiro (05/08/2012); Volunteer Training at *Save The Bay*, Narragansett, RI (4/5/2012); Video interview for COSEE “Broader Impact Wizard” video (<http://coseenow.net/wizard/>), produced by COSEE team: Josh Kurz, A Shapiro (01/29/2012); Interview/Photo by Vancouver Sun, B.C., on the Fraser River Observatory (05/11/2011), published in the Vancouver Times on April 17, 2012; BBC World Service – Science in Action, Interview by Jeremy Grange, BBC Wales (broadcast 10/27/2011); Field Trip to Connecticut River with WHOI Science Journalism Fellows (09/2011); Negotiation of Memorandum of Understanding with East China Normal University, SKLEC, Shanghai, China (signed 05/2011); National Geographic, News Watch: The Fraser River – The Study of a Watershed (ILCP, 07/15/2011); Presentation to Trustees/Corporation Members, COI, 05/12/2011, Spring Meeting; WCAI Interview “The Point” by Mindy Todd on the “Global Rivers Project” (with M Holmes, March 28, 2011); Falmouth Enterprise Newsletter Interview, 2010; Presentations to Trustees/Corporation Members on research in India (Abhay Singh, Dick Syron), 2009; Boston Science Briefs (Harvard Club, Boston), 2009; Baltimore Sun Newsletter

Interview, 1998; Falmouth Public Library Lecture Series: “Space Junk” (4 lectures on planetary system and meteorites, 1998).

Outside WHOI (Other than attendance at Society/National Meetings and Workshops):

Invited Guest Scientist: Invited Senior Visiting Scholar at the *East China Normal University*, Shanghai, China (5/2009); Invited Visiting Scientist (*Poste Rouge*) at the *Observatoire Midi-Pyrenees*, Univ. Toulouse, France (9-12/2008); Invited Visiting Scholar at the *Institute for Research on Earth Evolution (IFREE)*, Yokosuka, Japan (12/2007).

Conference/Workshop Organization: 2014 VM Goldschmidt “theme team” member for theme #16 (with S Misra); Member of organizing committee for the 2013 EarthCube End User Domain workshop (Boulder, Apr. 24-26) on *Terrestrial Surface Waters*; 2012 VM Goldschmidt pre-conference workshop on *Dissolved Osmium Analysis*, June 24, Montreal; 2011 *Global Rivers* Workshop, Oct. 5-7, WHOI/WHRC; 2010 *Large Rivers* workshop, Oct. 6-8, WHOI/WHRC; 2009 VM Goldschmidt Conference “theme team” member; *Connecticut River Science* Workshop, Oct. 27, 2008, CT River Science Museum, Essex, CT; *Connecticut River Science planning workshop*, May 16, 2008, Connecticut River Museum, Essex, CT.

Convener/Co-Convener: 2013 ASLO Meeting, Session SS77: *Transmission of Terrestrial Signals to the Coastal Ocean by (large) Rivers* (with RM Holmes); 2012 VM Goldschmidt Conference, Session #13a: *Temporal Variations in Seawater Chemistry* (with U Brand); 2010 Fall AGU sessions H51A, H53G, H54A on *Climate Forcing of Surface and Subsurface Hydrology and Biogeochemistry: Processes, Models, Management* (with S Arumugam, S Floegel, RM Holmes, NA Chappell, MT Coe, U Lall, G Parkin, J Drake, MJ Waterloo); 2007 Fall AGU session #45 on *Natural versus Anthropogenic Controls on Chemical Weathering* (with P Raymond and J Gaillardet); 1998 Fall AGU Union session on *Accretion of extraterrestrial matter throughout Earth’s history* (with B Schmitz).

Session Chair: 2014 VM Goldschmidt Conference, #16a *Anthropogenic impact on natural biogeochemical cycles* (with Sarah-Jane White, Harvard); 2002 VM Goldschmidt Conference, #22 *Erosion Factory II (GERM) Geochemical Signatures and Proxies of Weathering* (with J Gaillardet); 1999 VM Goldschmidt Conference, *Geochemical Perspectives on Weathering and Continent Formation and Evolution III, Recycling and Subduction Flux*.

Invited Participant/Lecturer: TechCon2016 – Higher Education Solutions Network (Boston, Nov. 10-12, 2016) *Starting from the Local: Relying on the Local Visions for Science and Development – Panel Discussion. Cyberinfrastructure and Water Resources in the Lower Mekong Region* (Hanoi, Aug. 18-22, 2014); Plenary lecture on “*Building the Global Rivers Observatory*” at the 2013 EarthCube End User Domain workshop (Boulder, Apr. 24-26) on *Terrestrial Surface Waters*; NSF Cyberinformatics ODM2 Workshop at the San Diego Supercomputer Center (March 12-13, 2013); IAEA committee of experts on *Global Network on Isotopes in Rivers*, Vienna, Nov. 2012; NSF *GEOTRACES Arctic Implementation and Cruise Planning* workshop, Washington, DC (June 13-15, 2012); NSF *Future Directions in Geobiology and Low Temperature Geochemistry* workshop, Washington, DC (Aug. 27-28, 2010); *GERM* Scientific Advisory Committee for 2006 *GERM Meeting*, Columbia University; 5th Austral Summer Institute, University of Concepcion, Chile, *Marine Radiogenic Isotope Records* (Jan. 10-14, 2005); 1st *CHRONOS* Geochemical Cycles Workshop, San Antonio, Texas (June 25-26, 2004); Discussion leader, working group *River Database* (with L Derry), *GERM* meeting, Lyon, France (5/2003); *GEOSECS II* planning workshop, Toulouse, France (4/2003); *Joy of Learning* Program, Falmouth Public Library, MA (1998); International Research Project *Global Map of Lead Isotopes in Anthropogenic Aerosols* (1997-1999).

Editor/Editorial Board: Editorial Board of *ACS Earth and Space Chemistry* (2017-2019, 3-yr term); Editorial Board of *Chemical Geology* (2006-2016); Book Editor: *Accretion of Extraterrestrial Matter Throughout Earth’s History*, Kluwer Acad./Plenum Publ., 466 p., 2001 (jointly with B Schmitz).

Geochemical Society: Member of the Nominations Committee (2011, 3-year term).

Databases: *CHRONOS* Geochemical Cycles database: marine sediment Os (03/11/2005) and He (09/21/2006) isotope data; Land2Sea Global River database (published in G-cubed).

External Referee: Promotion to Full Professor: Dr. James Day (2017, UCSD); Promotion to Res. Assoc. Professor: Dr. Andrew Schroth (2016, U Vermont); Promotion to Lecturer: Dr. David Selby (2011); Doctoral Dissertation: Dr. Thomas

Arsouze, CNRS Toulouse, France (2008); Doctoral Dissertation: Dr. Nadja Neubert, Univ. Bern, Switzerland (2008); Habilitation: Dr. Thomas Meisel, University of Leoben, Austria (2000).

NSF Panelist: Geobiology and Low-Temperature Geochemistry (EAR-G&G): November 2010; May 2011.

Science Fairs: Judge, Falmouth High School, MA (2003-2008). Science Fair research advisor to Falmouth Academy high school student Victoria Avis (2011, 2012), Nicholas Kania (2017, State Science Fair participation - Scholarship Awardee). Science Fair research mentor to Sitka (Alaska) High School student Michael Bekeris (2013/4, Best Project in Environmental Science, State Science Fair).

Reviewer: (number of manuscripts, proposals and books) for ACS-PRF (4), ACS Anal Chem (2), ACS – Earth & Space Chem. (1), Appl Rad Isotopes (1), Atmos Environ (1), Biogeochemistry (1), Cambridge Univ Press Book Proposal (1), Chem Geol (15), Deep-Sea Res. I (2), Deep-Sea Res. II (1), Deutsche Forschungsgemeinschaft (3), eEarth (1), ELEMENTS (1), EPSL (22), Environ. Chem. (1), Environ Sci Technol (3), French-IPEV (1), FWF-Austria (2), G³ (9), Geochem Intern (1), Geochem J (2), GCA (28), Geology (12), Geostand Newslett (1), JAAS (1), JGR–Solid Earth (2), JG-Oceans (1), J South Am Earth Sci (1), Marine Chem (3), Meteoritics Planet Sci (3), Nature (6), Nature Geosci. (2), Nature Communications (3), NERC (4), Paleooceanography (1), Pal. Pal. Pal. (1), PNAS (2), Portuguese National Science Foundation (1), Rev Mineral Geochem (1), J Roy Soc Interface (1), Science (4), Sci. Tot. Environ. (1), Terra Nova (3), U.S. NSF-EAR, -OCE, -HS, -ATM (114).

PARTICIPATION IN MIT/WHOI JOINT GRADUATE PROGRAM:

Education Coordinator: Marine Chemistry and Geochemistry Department (J. Seward Johnson Chair, 6/2013-6/2017)

Chair: Joint Committee on Chemical Oceanography (2012-2014); Doherty Chair in Education: *Teaching ICP Mass Spectrometry* (2009/2010); Summer Student/Minority Fellow Committee (2008-2010); PhD-thesis defenses: Anna M Cruse (10/2002), Nick Drenczek (4/2007), Evelyn Mervine (GG, 4/2012), Kyrstin Fornace (12/2015), James Collins (12/2016), Sarah Rosengard (12/2016), Guy Evans (3/2017); Thesis Proposal Defenses: Ana Lima, Amy Marie Accardi (2001), Paul Craddock (2005), Caitlin Frame (2008), Maya Bhatia (G&G, 2009), David Griffith (2009), Daniel Ohnemus (2011), Kyrstin Fornace (2013), Simone Moos (2014); MIT/WHOI MC&G General Examination Committee (2001, 2012).

Committee Member: WHOI Postdoctoral Scholarship Committee (2011); Joint Committee for Chemical Oceanography in the MIT/WHOI Joint Program in Oceanography (2003-2004); Education Council (MC&G Dept. Representative, 2002-2004); PhD Thesis Committees: Bridget Bergquist (MC&G), Seth John (MC&G, 2002-2007), Maya Bhatia (G&G, 2007-2011), Meagan Gonnea (2010-2013); Kate French (2012-2015); Ben Linhoff (2013-2015), Jordon Hemingway (since 2013), Christopher Kinsley (G&G, since 2015); Summer Student Fellow Committee (MC&G Dept. Representative, 1998-2000); Academic Advisor for incoming MIT/WHOI Joint Program students (jointly with K Ruttenberg, 1998-2000; jointly with M Saito, 2010-2012).

Organizer: “Ethics in Science” workshops for Summer Student Fellows, JP Students and Postdocs (2008-2010).

Lecturer in MIT/WHOI Joint Graduate Program in Oceanography and Ocean Engineering:

12.753 Geodynamics Program “Rivers – The cascading limb of the hydrologic cycle”: jointly with R Geyer and L Giosan: Spring semester 2011 (with field trip to the Fraser River basin, B.C.); “Anthropocene”: jointly with L Giosan, A Ashton, J Hemingway: Spring semester 2014.

12.754 Introduction to Isotope Chemistry: jointly with M Kurz and KWW Sims: Fall semester 2003.

12.744 Marine Isotope Geochemistry: jointly with KO Buesseler, M Charette, WJ Jenkins, MD Kurz: Spring semesters 1998, 2000, 2002, guest lecture 2006; jointly with WJ Jenkins, MD Kurz, M Charette, K Casciotti: Fall semester 2010; jointly with WJ Jenkins: Fall semesters 2012, 2014; jointly with S Ono (MIT): Spring term 2017.

12.748 Introduction to Isotope Chemistry: jointly with WJ Jenkins, W Martin, K Casciotti: Fall semester 2010, Fall semester 2011, with M Kurz.

12.759 Seminar in Marine Chemistry: jointly with MK Tivey: Spring semester 1998 “Analytical Instrumentation”; Spring semester 1999 “Landmark Papers in Chemical Oceanography”; Jointly with P Lam: Spring semester 2010

“Landmark Papers in Chemical Oceanography”; Jointly with A Spivak: Spring semester 2012 “Landmark Papers in Chemical Oceanography”.

Summer Lecture Series: 1998, 1999, 2000, 2001, 2003, 2004, 2006, 2010, 2016.

Invited speaker, Summer Student Fellow Banquet: 2005.

SUPERVISION AT WHOI:

Part-time Helper/Volunteer: Barrett Laird (7-8/2017); Nicholas Kania (11/2016-2/2017); Owen Steele (7/2015; 7-8/2016; 8/2018); Max von der Heydt (1/1999-6/2000)

Research Assistant III: Tracy Abbruzzese/Atwood (jointly with G Ravizza, 8/1999-4/2011)

Research Associate II: Gretchen Swarr (ICPMS Facility, 10/2014-5/2017; Res Assoc II since 8/15)

Senior. Res. Assistant I: Scot Birdwhistell (ICP-Facility, until 7/2014)

Research Associate III/Res. Specialist (2/2010-5/2017): Dr. Jurek Blusztajn (ICP-Facility)

Research Specialist: Lary A Ball (ICP-Facility, 1997-2007)

Senior Res. Specialist: Dr. Graham D Layne (NENIMF, 11/2003-12/2005)

Guest Students: Owen Steele (Aug. 2018), Max Beaupaire (ENS Lyon, France, Apr-Jul 2018); Madelaine Bourdages (UFV, B.C., Canada, Nov./Dec. 2017), Stefani Johnson (WHOI SSF, 2016); Julia Katherine Paine (WHOI SSF, 2016), Soumita Boral (IIT Kanpur, India, 2016); Audrey Faber, Ellen Clemence (University of the Fraser Valley, B.C., Canada, Guest Students, Jan./Mar. 2016); Ashleigh Yakemchuck, Sophie Smith (University of the Fraser Valley, B.C., Canada, Guest Students, Jan./Mar. 2015); Tracey Conrad (UCSC, jointly with S Nielsen, 2014, 2015); Audrey Epp, Michelle Bennett, Rosalie Luymes (University of the Fraser Valley, B.C., Canada, Guest Students, Sept./Nov. 2013); Kimberley Mayfield (Univ. Hawai'i/Manoa, 2012 Summer Student Fellow, now graduate student at UCSC); Helena Fraser, Jenna Fanslau, Bryce Downey, and Garrett Macklam-Harron (University of the Fraser Valley, B.C., Canada, Guest Students, Sept./Oct. 2011), Sarah Rosengard (Brown Univ., Cruise student – Fraser River basin, June 2011, now MIT/WHOI JP student), Sharmila Pal (Guest Student, Univ. Washington, Seattle, Nov./Dec. 2009 – now graduate student at USC), Christine A Waters (Univ. Texas, El Paso, 2009 WHOI Minority Fellow – now graduate student at Univ. Hawai'i, Manoa, NSF Graduate Research Fellow), Katherina Fiege (Univ. Heidelberg, Germany, March/April 2008 – now Res. Fellow Georgia Tech), Jared W Singer (Utah Univ., 2006 WHOI Summer Student Fellow – now Lab Manager, Corman Center for Mass Spectrometry, RPI), Brett D Walker (UCSC, 2004 WHOI Summer Student Fellow – PhD from UCSC, now Postdoc, UC Irvine), Lillie A Jaffe (UCSD, 2000 WHOI Summer Student Fellow – M.S. from UCSD in 2004), Andrew D Jacobson (Dartmouth College, Fall 1998 – now Tenured Assoc. Professor at Northwestern Univ.), Oliver Woodhouse (Univ. Southampton, UK, jointly with G Ravizza, Summer 1998 – now with eDAQ Southeast Asia), Tim Donovan (Univ. Southampton, UK, Summer 1997).

MIT/WHOI JP Students: Andrea Dubin (2/2012-5/2015, now Second Lieutenant U.S. Army); Katherine Kirsch (9/2010-5/2011, left JP, finished MSc at Colorado School of Mines, now Data Scientist at Innovu LLC); Britta Voss (7/2009-8/2014, USGS Mendenhall Fellow, Boulder, CO; now AAAS Sci. & Technol. Policy Fellow with NIST); Christian A Miller (8/2003–5/2009, now Research Scientist and Mass Spectrometry Facility Manager at the U Hawai'i at Manoa).

Postdoctoral Fellows: Dr. Ann Dunlea (jointly with T Horner; since 3/2018); Dr. Kristina Brown (UBC, jointly with V Galy & ZA Wang, 11/2014-5/2017, now Postdoc at UBC, Canada); Dr. Indra S. Sen (Florida Internatl. Univ., 11/2010-5/2013, now tenured Prof. at the Indian Institute of Technology at Kanpur); Dr. Nadja Neubert (Univ. Bern, Switzerland, 05/2009-6/2010, now Postdoc at the Leibniz University of Hannover, Germany); Dr. Valier Galy (CRPG Nancy, France; jointly with T Eglinton, 10/2007-10/2010, now Assoc. Sci. at WHOI); Dr. Robyn Hannigan (Univ. Rochester; jointly with E Sholkovitz, 1997-1999, now Dept. Chair at UMass Boston, AAAS and GSA Fellow).

Guest Investigators: Juan Camilo Restrepo Lopez (since 2/2018, 3 yr), Jose Maura Sousa Moura (since 1/2018, 3 yr), Bienvenu Dinga (since 1/2018, 3 yr), Van Pham Dang Tri (since 11, 2017, 3 yr), Greg Fiske (WHRC, since 8/2016), Ekaterina Bulygina (WHRC, since 5/2012); Paul Mann (WHRC, 9/2011-12/2015); R. Max Holmes (WHRC, since 11/2010); Bing Deng (SKLEC, ECNU Shanghai, China, 7-12/2010); B.S. Jared W. Singer (Utah University, 1-2/2007); Dr. Hassan M Baioumy (Cairo, Egypt, Mary Sears Visitor Program, 2/2004-8/2004); Dr. Martin Rosner (Potsdam Univ.,

Germany; jointly with W Bach, 11/2003-5/2004, 5-6/2005, 4-5/2006); Dr. Candace E Martin (ANU, Canberra, Australia, 10-12/1998, 1/2000, 1/2005); Dr. Stefan Schroeder (MIT Postdoctoral Researcher; at WHOI jointly with G Ravizza, 2001-2003, now Res. Assoc. at UWit, South Africa).

Adjunct Scientists: Prof. Dr. Birger Schmitz (Lund University, 2009-2015).

CRUISE PARTICIPATION:

Oct 14-20, 2017 Chartered MV “Island Spirit” for Columbia/Snake River Science Expedition.
 Mar 15-23, 2016 Chartered “Mekong Sun” vessel for Mekong River Science Expedition.
 Dec 10-17, 2014 Chartered “Premium” vessel for Solimoes and Rio Negro River Science Expedition.
 May 13, 2014 Boat owned by Simon Fraser University, B.C. – Sampling the Fraser River at Mission.
 August 1, 2011 Chartered whale-watching boat “Triple S” – Geodynamics Study Tour – Fraser River Delta.
 June 7, 2011 Vancouver Port Authority Patrol Vessel “Port Fraser” – Fraser River, B.C., Canada.
 Oct. 26, 2010 Vancouver Port Authority Patrol Vessel “Port Fraser” – Fraser River, B.C., Canada.
 Sept 13, 2010 R/V *Tioga*, Buzzards Bay “mud patch”, porewater sampling.
 July 28/29, 2009 Vancouver Port Authority Patrol Vessel “Port Fraser” – Fraser River Delta, B.C., Canada.
 June 26, 2006 R/V *Riverkeeper*, “The Hudson River Estuary”, Tarrytown to Beacon.
 July 7, 2004 R/V *Tioga*, “The Hudson River Estuary”, RT Jersey City to Tarrytown.
 Jan-Feb 1993 R/V *Sonne*, “The St. Helena Hotspot” - Las Palmas/Spain to Cape Town/South Africa (50 days).

FIELD WORK:

Nov. 2016 Sampling the Mekong River at Can Tho, Viet Nam.
 July 2016 Sampling the Mississippi River at New Orleans.
 June 2016 Sampling the Fraser River at the time series station in Fort Langley, B.C., Canada.
 Sept. 30, 2015 Sampling the Fraser River at the time series station in Fort Langley, B.C., Canada.
 Apr/July 2015 Sampling the Mississippi River at New Orleans.
 2012/2013/2014 Multiple day-trips to four rivers in Rhode Island and Massachusetts (8 trips).
 October 2012 Sitka, Alaska: sampling of local rivers (28 days).
 August 2012 Volcanic intrusions into Pierre Shale, northern NM, Raton Basin (3 days).
 November 2011 Fraser River basin, B.C., Canada (8 days, 500 liter filtration/dissolved lignin phenol extraction).
 July/Aug 2011 Geodynamics Study Tour – Fraser River Basin, B.C., Canada (10 days).
 May/June 2011 Fraser River basin, British Columbia, Canada (3 weeks).
 October 2010 Fraser River basin, British Columbia, Canada (3 weeks).
 2005-2015 Various river sampling trips (Connecticut, Hudson, Susquehanna, Potomac, Mississippi-Missouri, Rhine, Elbe, streams on Hawaii, Cape Cod, MA and RI, rivers near Goa, India; rivers near Sitka, Alaska).
 July/August 2009 Fraser River basin, British Columbia, Canada (3 weeks).
 August 2005 “Snowball Earth” glacial terminations, Namibia (10 days).
 June 2005 Mississippi/Missouri River tributaries (1 week).
 August 2000 U.S. West Coast ophiolites (Josephine, Trinity), S. Oregon/N. California, USA (6 days).
 August 1997 Wind River Range, Wyoming, USA (5 days).
 1987/88 Mapping sections of the “Bavarian Quartz Dyke” in eastern Bavaria, Germany (7 weeks).

INVITED LECTURES:

Wellesley College, Chem. Dept. Seminar (04/30/2018) *How has the chemistry of the Mississippi River changed over 111 years?*
 Goldschmidt-Conference (keynote lecture), Paris (08/2017) *How significantly are we disturbing near-surface element cycles?*
 East China Normal University, Shanghai (10/18/2016) *The Mississippi River Observatory.*
 The Royal Society GEOTRACES Workshop on “Quantifying fluxes and processes in trace-metal cycling at ocean boundaries”, Chicheley Hall, UK (12/9-10/2015) *River fluxes to the ocean – lessons from the Global Rivers Observatory.*
 University of the Fraser Valley, Abbotsford, B.C., Canada (09/29/2015) *The Global Rivers Observatory.*

- International Society for River Science, La Crosse, WI (08/26/2015) *Global Rivers Observatory – A people network for studying globally significant rivers (plenary lecture/featured speaker).*
- Northwestern University, Evanston (05/09/2014) *Is the marine strontium isotope budget balanced, and why should we care?*
- Save The Bay, Narragansett, Rhode Island (02/26/2014) *The Biogeochemistry of Rhode Island's Rivers.*
- Swissnex Boston, Symposium "From the Alps to the Atlantic" (06/25/2013) *Observing river discharge to the ocean.*
- NSF EarthCube EndUser workshop on Terrestrial Surface Waters, Boulder (04/24/13) Plenary Lecture: *Building the Global Rivers Observatory.*
- Arizona State University, Tempe (03/22/13) Department of Chemistry and Biochemistry Seminar on *Isotope Geochemistry of Continental Runoff and Seawater.*
- Arizona State University, Tempe (03/22/13) Isotope Geochemistry course lecture on *The Marine Osmium Isotope Record.*
- East China Normal University, Shanghai (10/30/12) Symposium on "Coastal Responses to Climate Change and Human Activity" (Oct. 28-31, 2012) *Delivery of terrestrial matter to the coastal ocean by rivers.*
- University of Alaska Southeast, Sitka, Natural History Seminar Series (10/09/12) *Building the Global Rivers Observatory.*
- NSF, US GEOTRACES Arctic Implementation and Cruise Planning meeting (06/13/2012) *River Input into the Arctic Ocean: Arctic Great Rivers Observatory (Arctic-GRO) – (jointly with R. Max Holmes).*
- University of the Fraser Valley – Discovery Seminar, Abbotsford, B.C., Canada (11/10/2011) *The Fraser River Observatory.*
- University of British Columbia, EOS Dept., Vancouver, B.C., Canada (11/09/2011) *The Global Rivers Observatory.*
- University of British Columbia, EOS Dept., Vancouver, B.C., Canada (11/09/2011) *The Fraser River Observatory.*
- Univ. Wyoming, Laramie, WY, Distinguished Lecturer Series (09/12/11) *Building a Global Rivers Observatory Network.*
- Save The Bay, Narragansett, RI (08/12/11) *Building a Global Rivers Observatory.*
- WHOI Exhibit Center, Science Made Public (07/12/11) *Where the Land Meets the Ocean.*
- ETH Zürich, Switzerland (03/03/11) *River Geochemistry, Marine Isotope Records and the Evolution of the Continental Surface.*
- Boston Science Briefs, Harvard Club (09/09/09) *From Land to Sea: Transport of Organic Carbon by Rivers to the Ocean.*
- East China Normal University, Shanghai (05/20/09) *Measuring rhenium isotopes by multi-collector ICPMS.*
- East China Normal University, Shanghai (05/18/09) *ETBC River project – an overview.*
- East China Normal University, Shanghai (05/15/09) *The marine Os isotope record.*
- East China Normal University, Shanghai (05/14/09) *Interpretation of marine Sr and Nd isotope records.*
- East China Normal University, Shanghai (05/13/09) *Transport of freshwater and sediment from land to sea.*
- Scripps Institute of Oceanography, UCSD (03/04/09) *Interpreting Sr and Nd marine isotope records.*
- Université Pau, France (11/28/08) *What do marine Sr and Nd isotope records tell us about the evolving continental crust?*
- LEGOS, Observatoire Midi-Pyrénées, Toulouse, France (11/13/08) *What do marine Sr and Nd isotope records tell us about the evolving continental crust?*
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- IFREE/JAMSTEC, Japan (12/18/07) *The marine osmium isotope record.*
- The University of Tokyo, Japan (12/17/07) *Platinum group element anomalies at the termination of Cryogenian glaciations.*
- AGU (2007 Fall Meeting) *Modeling Nd isotope composition of continental inputs to the ocean.*
- Goldschmidt Conference, Melbourne, Australia (09/01/06) *Marine $^{87}\text{Sr}/^{86}\text{Sr}$ record mirrors the evolving upper continental crust.*
- Yale University, USA, Topics in Climate Change Seminar (04/12/06) *Geochemical evidence for enhanced weathering and against comet impact at the PETM.*
- Lamont-Doherty Earth Observatory at Columbia University, USA (11/09/05) *Continental forcing of variations in the marine Sr isotope record.*
- Max-Planck-Institute for Chemistry, Mainz, Germany (11/03/05) *Reconstructing the evolution of the eroding continental crust from the marine Sr isotope record.*
- Tulane University, New Orleans, E&ES Dept. Seminar, USA (04/15/05) *The Chixculub impact and Deccan volcanism at the Cretaceous-Tertiary boundary.*
- Stanford University, Palo Alto, Geology & Environmental Sciences, USA (03/01/05) *The marine osmium isotope record.*
- Texas A&M University, College Station, G&G Department, Brown-bag Seminar, USA (03/26/04) *The use of digital geologic maps to estimate river chemistry.*

- Texas A&M University, College Station, G&G Department, Colloquium Series, USA (03/25/04) *Extraterrestrial impact and Deccan volcanism at the Cretaceous-Tertiary boundary - Alvarez et al. vs Officer & Drake revisited.*
- Dartmouth College, Earth Science Department, USA (02/14/03) *A new initiative investigating links between bedrock geology and river chemistry.*
- MIT, Chem. Ocean. Mar. Geol. Seminar, USA (11/22/02) *Quantitative bedrock geology and river chemistry.*
- AGU (2001 Fall Meeting) *The global significance of organic-rich sediments for the crustal TOC, Re, and Os cycles.*
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- Yale University, Topics in Global Change, USA (10/29/01) *The global significance of organic-rich sediments for the crustal Re, Os and C_{org} inventories.*
- 31th IGC, Rio de Janeiro, Brazil (08/16/00) *Interpreting the marine osmium isotope record.*
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- A96. **Peucker-Ehrenbrink B** (2007) Paleogeology of continental drainage. *Geochim. Cosmochim. Acta* 71 (15), Suppl. S, A783.
- A97. Ravizza G, F Paquay, T Dalai, **B Peucker-Ehrenbrink** (2007) The stratigraphic utility of the marine Os isotope record of the Eocene-Oligocene transition. Penrose Conference, Italy.
- A98. **Peucker-Ehrenbrink B**, C Jeandel (2007) Modeling Nd isotope composition of continental inputs to the ocean. *Eos, Trans. AGU*, Fall AGU abstract # (invited talk)
- A99. **Peucker-Ehrenbrink B**, CA Miller, B Walker (2007) The role of anthropogenic contamination in the riverine Re and Mo inputs to the ocean. *Eos, Trans. AGU*, Fall AGU abstract #
- A100. Miller CA, **B Peucker-Ehrenbrink**, LA Ball (2007) Rhenium isotope variability. *Eos, Trans. AGU*, Fall AGU abstract
- A101. Rosner M, **B Peucker-Ehrenbrink**, W Bach (2008) The platinum group element and osmium isotope inventory of Atlantis Massif. German IODP Kolloquium, Hannover.
- A102. **Peucker-Ehrenbrink B**, K Hanghoj, P Kelemen (2008) Rhenium-osmium isotope and platinum-group element systematics of oceanic crust – Oman and DSDP/ODP 504B. *Geochim. Cosmochim. Acta* 72 (12), Suppl. 1, A742.
- A103. Miller CA, **B Peucker-Ehrenbrink**, LA Ball (2008) Rhenium isotopes in natural systems. *Geochim. Cosmochim. Acta* 72 (12), Suppl. 1, A628.
- A104. Sims, K, **B Peucker-Ehrenbrink**, T Mather, D Pyle, RP-J Gauthier, A Aiuppa (2008) Importance of rhenium and noble metal volcanic fluxes in the global geochemical cycles. IAVCEI-Conference.
- A105. Robinson N, G Ravizza, Coccioni, **B Peucker-Ehrenbrink**, R Norris (2008) A high-resolution marine osmium isotopic record for the late Maastrichtian: the chemical fingerprints of Deccan volcanism. *Eos, Trans. AGU*, Fall AGU abstract #3836
- A106. **Peucker-Ehrenbrink B**, G Ravizza (2008) The marine Os isotope record of the Jemini-Ethiopian Flood Basalt eruption. *Eos, Trans. AGU*, Fall AGU abstract # 10941 (poster).
- A107. Schmitz B, PR Heck, C Alwmark, NT Kita, **B Peucker-Ehrenbrink**, T Ushikubo, JW Valley (2009) Determining the impactor of the Ordovician Lockne crater: oxygen isotopes in chromite versus sedimentary PGE signatures. 40th LPSC, Abstract 2009LPI...40.1161S.
- A108. **B Peucker-Ehrenbrink**, C Jeandel, T Arsouze (2009) Continental sources of Nd to seawater – Past and present. VM Goldschmidt Conference, Davos, June 22-26, A1022 (poster).
- A109. Jeandel C, Y Godderis, **B Peucker-Ehrenbrink**, F Lacan, T Arsouze (2009) Impact of the boundary processes on Si, Ca and Mg inputs to the ocean. VM Goldschmidt Conference, Davos, June 22-26, A588 (oral).
- A110. Krabbenhöft A, A Eisenhauer, H Vollstaedt, N Augustin, J Fietzke, V Liebetrau, **B Peucker-Ehrenbrink**, N Nolte, BT Hansen (2009) Ocean Sr-budget from paired $\delta^{88/86}\text{Sr}$ and $^{87}\text{Sr}/^{86}\text{Sr}^*$ -ratios. VM Goldschmidt Conference, Davos, June 22-26, A694 (oral), *Geochim. Cosmochim. Acta* 73 (13), A694-A694.
- A111. Waters C, **B Peucker-Ehrenbrink**, PF Hoffman (2009) Platinum group element and Re-Os isotope systematics of Cryogenian glacial terminations. *Eos, Trans. AGU*, Fall AGU abstract (poster).
- A112. **Peucker-Ehrenbrink B**, T Eglinton, RM Holmes, A Soule, V Galy, S Goetz, N Laporte, W Wollheim (2009) Controls on the flux, age and composition of terrestrial organic carbon exported by rivers to the ocean. *Eos, Trans. AGU*, Fall AGU abstract (poster).
- A113. Eisenhauer A, A Krabbenhöft, F Boehm, H Vollstaedt, N Augustin, J Fietzke, V Liebetrau, **B Peucker-Ehrenbrink**, C Horn, B Hansen, N Nolte (2009) Determination of $^{87}\text{Sr}/^{86}\text{Sr}^*$ - $\delta^{88/86}\text{Sr}$ values of the oceans Sr sources and sinks to balance the global Sr cycle. *Eos, Trans. AGU*, Fall AGU abstract.
- A114. Krabbenhöft A, A Eisenhauer, F Boehm, H Vollstaedt, N Augustin, J Fietzke, V Liebetrau, **B Peucker-Ehrenbrink**, C Horn, N Nolte, B Hansen (2009) Deriving the marine strontium budget from paired ($^{87}\text{Sr}/^{86}\text{Sr}^*$ - $\delta^{88/86}\text{Sr}$) values of marine carbonates, hydrothermal fluids and river waters. *Eos, Trans. AGU*, Fall AGU abstract.
- A115. Neubert N, CA Miller, **B Peucker-Ehrenbrink** (2010) Rhenium isotope variations in modern environments. EGU Conference Abstracts.
- A116. Galy V, C France-Lanord, **B Peucker-Ehrenbrink**, P Huyghe (2010) Sr-Nd-Os evidence for a stable erosion regime in the Himalaya during the past 12 Myr. EGU Conference Abstracts.

- A117. **Peucker-Ehrenbrink B** (2010) Flux and $^{87}\text{Sr}/^{86}\text{Sr}$ of land-derived Sr to seawater – Interpreting the marine Sr isotope record. Goldschmidt Conference Abstracts (oral)
- A118. Fiege K, CA Miller, LF Robinson, R Figueroa, **B Peucker-Ehrenbrink** (2010) Strontium isotopes in Chilean rivers: the flux of unradiogenic continental Sr to seawater. Goldschmidt Conference Abstracts (oral)
- A119. Waters CA, **B Peucker-Ehrenbrink**, P Hoffman (2010) Platinum group element and Re-Os isotope systematics of Cryogenian glacial terminations. Goldschmidt Conference Abstracts (poster)
- A120. Neubert N, CA Miller, **B Peucker-Ehrenbrink**, M Schubert (2010) Rhenium isotope variations in modern environments. Goldschmidt Conference Abstracts (oral)
- A121. Voss B, DB Montluçon, TI Eglinton, S Pal, **B Peucker-Ehrenbrink** (2010) Land-sea transport of terrestrial carbon in the Fraser River, British Columbia. Goldschmidt Conference Abstracts (poster)
- A122. Rauch S, **B Peucker-Ehrenbrink**, HF Hemond (2010) Platinum group elements – Identifying sources from early metal mining to the automobile catalyst. The Proceedings of the 15th ICHMET Conference on Heavy Metals in the Environment, Gdansk, Poland (extended abstract of an invited keynote lecture), pp. 53-56, ISBN/ISSN: 978-83-928986-5-8.
- A123. Kolker A, MA Engle, **B Peucker-Ehrenbrink**, MH Bothner, DP Krabbenhoft, NJ Geboy, PJ Lamothe (2010) Geochemistry of atmospheric aerosols on Cape Cod, MA: Implications for air quality and human health. Geol. Soc. Am. 2010 Annual Mtg, Denver, Colorado (poster?)
- A124. Engle MA, NJ Geboy, JA Martin-Fernandez, RA Olea, **B Peucker-Ehrenbrink**, A Kolker, DP Krabbenhoft, PJ Lamothe, MH Bothner, MT Tate (2010) Comparison of compositional and traditional approaches to source apportionment of atmospheric trace gases and particulate matter. GSA abstract.
- A125. Spencer RGM, PJ Mann, B Dinga, J Poulsen, G Fiske, C Linder, E Bulygina, PJ Hernes, J Six, RY Dyda, **B Peucker-Ehrenbrink**, TI Eglinton, RM Holmes (2010) Controls on DOM biogeochemistry across a gradient of streams within the Congo River basin. Eos, Trans. AGU, Fall AGU abstract (poster).
- A126. Voss B, **B Peucker-Ehrenbrink**, TI Eglinton, DB Montluçon, S Gillies, S Marsh, A Janmaat, J Fanslau, H Fraser, B Downey, G Macklam-Harron (2010) Seasonal variability of river geochemistry in the Fraser River, British Columbia. Eos, Trans. AGU, Fall AGU abstract (poster H51A-0866).
- A127. **B Peucker-Ehrenbrink**, CA Waters, PF Hoffman, MD Kurz (2010) Extraterrestrial matter chronometry in sediments. Eos, Trans. AGU, Fall AGU abstract (talk)
- A128. Spencer, RG PJ Mann, B Dinga, J Poulsen, G Frisk, C Linder, EB Bulygina, PJ Hernes, JW Six, RY Dyda, **B Peucker-Ehrenbrink**, TI Eglinton, RM Holmes (2010) Controls on DOM biogeochemistry across a gradient of streams within the Congo River Basin. AGU Fall Meeting 2010, San Francisco CA, (poster B23E-0428).
- A129. **Peucker-Ehrenbrink B**, TI Eglinton, RM Holmes, V Galy, B Voss, P Mann, R Spencer, SA Soule, SJ Goetz, N Laporte, WM Wolheim, ZA Wang (2010) Controls on the flux, age, and composition of terrestrial organic carbon exported by rivers to the ocean. AGU Chapman Conference on Source to Sink Processes, Oxnard, CA (poster).
- A130. Feng Z, V Galy, JE Vonk, B Voss, Y Wu, **B Peucker-Ehrenbrink**, RM Holmes, DB Montluçon, TI Eglinton (2011) Distribution and fate of lignin in dissolved organic matter in World's large river systems. IMOG-0279 abstract.
- A131. Voss B, **B Peucker-Ehrenbrink**, TI Eglinton, V Galy, DB Montluçon, E Bulygina, RM Holmes, G Fiske, L Xu, SL Gillies, S Marsh, A Janmaat, B Downey, J Fanslau, H Fraser, G Macklam-Harron (2011) Exploiting isotopic, organic, and inorganic geochemical tracers of terrestrial matter in suspended particles of the Fraser River, British Columbia. International Meeting on Organic Geochemistry (IMOG, poster, Interlaken, Switzerland).
- A132. Marsh S, S Gillies, A Janmaat, J Fanslau, B Downey, **B Peucker-Ehrenbrink**, B Voss, E Bulygina, G Fiske, T Eglinton, D Montluçon, H Fraser, G Macklam-Harron, B Wiebe, M Martinec, C Johnson, J Blusztajn, S Birdwhistell (2011) Variation of Fraser River, Kanaka Creek and Silver Creek geochemistry, British Columbia. WDCAG Conference.
- A133. Marsh S, S Roberts, C Enns, **B Peucker-Ehrenbrink**, RM Holmes (2011) “My River, My Home” – A testimony of the Fraser River through the perception of students. WDCAG Conference.
- A134. Engle MA, JA Martin-Fernandez, NJ Geboy, RA Olea, **B Peucker-Ehrenbrink**, A Kolker, DP Krabbenhoft, PJ Lamothe, MH Bothner, MT Tate (2011) Source apportionment of atmospheric trace gases and particulate matter: Comparison of log-ratio and tridirectional approaches.

- A135. Fanslau J, B Downey, S Marsh, S Gillies, A Janmaat, **B Peucker-Ehrenbrink**, B Voss, K Kirsch, J Blusztajn, E Bulygina, G Fisk, T Eglinton, D Monluçon, H Fraser, G Macklam-Harron, B Wiebe, M Martinec, C Johnson, S Birdwhistell (2011) Spatial variations of dissolved and particulate organic carbon concentrations along the Fraser River, British Columbia. Abstract presented at the WDCAG, Vancouver, Canada.
- A136. Sen IS, **B Peucker-Ehrenbrink** (2011) Human impact on global element cycles. VM Goldschmidt Conference.
- A137. Voss B, **B Peucker-Ehrenbrink**, TI Eglinton, SL Gillies, S Marsh, A Janmaat, B Downey, J Fanslau, F Fraser, G Macklam-Harron (2011) Constraining subannual variability in river chemistry and hydrology with $^{87}\text{Sr}/^{86}\text{Sr}$: A case study in the Fraser River basin, Canada. VM Goldschmidt Conference.
- A138. Eglinton TI, V Galy, X Feng, B Voss, **B Peucker-Ehrenbrink**, C Ponton, L Giosan, E Schefuss, D Montluçon, P Douglas, M Pagani, Y Wu, N Drenzek (2011) Tracing molecular proxy signals from biological source to sedimentary sink. VM Goldschmidt Conference.
- A139. Marsh S, S Gillies, J Fanslau, B Downey, **B Peucker-Ehrenbrink**, B Voss, E Bulygina, G Fiske, T Eglinton, D Montluçon, H Fraser, G Macklam-Harron, B Wiebe, M Martinec, C Johnson, S Birdwhistell (2012) Variation of Kanaka Creek and Silver Creek geochemistry, Fraser River basin, British Columbia, Canada. Abstract submitted to AAG Conference, NYC, 2012.
- A140. Fanslau J, S Marsh, S Gillies, **B Peucker-Ehrenbrink**, B Voss, R Spencer, P Mann, E Bulygina, RM Holmes (2012) Analysis of the spectrophotometric properties of dissolved organic matter to determine the effects of land use on water-quality of the Fraser River, British Columbia. Abstract submitted to AAG Conference, NYC, 2012.
- A141. Downey B, J Fanslau, S Marsh, SL Gillies, A Janmaat, **B Peucker-Ehrenbrink**, B Voss, Z Wang, K Hoering, TI Eglinton, D Montluçon, H Fraser, G Macklam-Harron, B Wiebe, M Martinec, C Johnson, S Birdwhistell (2011) Variability and sources of dissolved inorganic carbon in the Fraser River, B.C., Canada. Abstract & Poster, Western Division of the Canadian Association of Geographers, Vancouver, Canada, 2011.
- A142. Fraser H, J Herbert, S Gillies, S Marsh, **B Peucker-Ehrenbrink**, B Voss, P Mann, E Bulygina (2012) Impact of industrial and agricultural land use on nutrients and water quality of the Fraser River Basin, British Columbia. Abstract submitted to AAG Conference, NYC, 2012.
- A143. Voss BM, **B Peucker-Ehrenbrink**, TI Eglinton, V Galy (2012) How do different components of terrestrial sources contribute to the riverine suspended load? EGU Meeting, April 2012.
- A144. Beck AJ, MA Charette, JK Cochran, ME Gonnee, **B Peucker-Ehrenbrink** (2012) Can submarine groundwater discharge balance the oceanic strontium isotope budget? VM Goldschmidt Conference, Montreal (oral, abstract xxxx).
- A145. Voss BM, **B Peucker-Ehrenbrink**, TI Eglinton, S Marsh, SL Gillies, G Fiske, W Wollheim, R Stewart, M Alamwala, M Bennett, B Downey, J Fanslau, H Fraser, J Herbert, G Macklam-Harron, B Wiebe (2012) Prediction and observation of dissolved geochemistry of the Fraser River, British Columbia. VM Goldschmidt Conference, Montreal (oral, abstract xxxx).
- A146. **Peucker-Ehrenbrink B**, G Ravizza (2012) The osmium isotope record of seawater: 20 years of research. VM Goldschmidt Conference, Montreal (oral, abstract 1xxx).
- A147. Feng X, JE Vonk, H Bao, V Galy, B Voss, P Mann, Y Wu, **B Peucker-Ehrenbrink**, DJ Repeta, RM Holmes, DB Montluçon, TI Eglinton (2012) Contrasting radiocarbon age of lignin phenols in the dissolved and particulate matter in major river systems. 21st International Radiocarbon Conference, Paris, July.
- A148. Voss, BM, TI Eglinton, **B Peucker-Ehrenbrink**, V Galy (2012) Organic carbon-particle association of suspended and bank sediments in the Fraser River basin, Canada. SOM-5 workshop on sedimentary organic matter stabilization.
- A149. Hein, CJ, VV Galy, **B Peucker-Ehrenbrink**, TI Eglinton (2012) Preliminary evidence for a monsoonal forcing of the dynamics of terrestrial organic-carbon export to the Bay of Bengal. Gordon Research Conference (July xx-xx 2012).
- A150. Huang K-J, F-Z Teng, A Elsenouy, W-Y Li, **B Peucker-Ehrenbrink** (2012) Magnesium isotopic composition of global loess. Fall AGU meeting, Abstract #, Eos, Transactions AGU.
- A151. Sen IS, **B Peucker-Ehrenbrink** (2012) Anthropogenic disturbance of element cycles at the Earth's surface. Fall AGU meeting, Abstract #, Eos, Transactions AGU.
- A152. **Peucker-Ehrenbrink, B**, IS Sen, N Geboy (2012) Anthropogenic osmium in airborne particles from Woods Hole, Massachusetts, USA. Fall AGU meeting, Abstract #, Eos, Transactions AGU.
- A153. Galy, V, CJ Hein, **B Peucker-Ehrenbrink**, T Eglinton (2012) Climatic forcing of organic-carbon-export dynamics from the Ganges-Brahmaputra River System. Fall AGU meeting, Abstract #, Eos, Transactions AGU.

- A154. Galy, V, **B Peucker-Ehrenbrink**, T Eglinton (2012) Biogenic and petrogenic carbon export... Fall AGU meeting, Abstract #, Eos, Transactions AGU.
- A155. **Peucker-Ehrenbrink, B** (2012) Delivery of land-derived matter to the coastal ocean. International Symposium on Climate Change and Human Activities: Coastal Consequences and Responses. Shanghai, China, Oct. 28-31, 2012 (**invited talk**).
- A156. Valier G, C Hein, **B Peucker-Ehrenbrink**, TI Eglinton (2012) Dynamics of fluvial release of terrestrial organic carbon: climatic, geomorphologic or human forcing? SOM-5 Conference, Switzerland.
- A157. Mayfield K, **B Peucker-Ehrenbrink**, R Calabro, M Cole Ekberg, D Prescott (2013) The Biogeochemistry of small passive margin rivers along the northern U.S. East Coast. ASLO, New Orleans, Feb. 2013 (poster, session SS77).
- A158. Galy V, **B Peucker-Ehrenbrink**, T Eglinton (2013) Control of the global transfer of terrestrial organic carbon to the ocean. ASLO, New Orleans, Feb. 2013 (**invited talk**).
- A159. **B Peucker-Ehrenbrink**, RM Holmes, TI Eglinton, R Spencer, V Galy, ZA Wang, M Coolen, P Mann, B Voss, JE Vonk (2013) Building the Global Rivers Observatory. ASLO, New Orleans, Feb. 2013 (oral).
- A160. Voss B, TI Eglinton, **B Peucker-Ehrenbrink**, V Galy (2013) Tracing riverine organic matter with inorganic radioisotopes. ASLO, New Orleans, Feb. 2013 (oral).
- A161. Hemingway JD, VV Galy, **B Peucker-Ehrenbrink** (2013) Characterizing organic carbon export from four New England Rivers. ASLO, New Orleans, Feb. 2013 (poster).
- A162. Burke A, JF Adkins, J Gaillardet, RM Holmes, JW McClelland, **B Peucker-Ehrenbrink**, LF Robinson, RGM Spencer, BM Voss (2013) Constraining the modern riverine sulfur isotopic budget. VMG Conference, Florence, Italy.
- A163. **Peucker-Ehrenbrink B** (2013) Crustal evolution mirrors seawater Sr and Nd isotope records. Fall AGU meeting, Abstract #EP51D-02, Eos, Transactions AGU.
- A164. Voss BM, **B Peucker-Ehrenbrink**, JG Venditti (2013) Towards quantitative flux and provenance assessment of riverine suspended sediments: a geochemical investigation of the Fraser River, Canada. Fall AGU meeting, Abstract #EP52B-05, Eos, Transactions AGU (**Outstanding Student Paper Award**).
- A165. Bennett M, A Epp, R Luymes, J Da Silva, S Marsh, S Gillies, **B Peucker-Ehrenbrink**, BM Voss, M Coolen (2013) Seasonal variations of the geochemistry and the effects on the composition of microbial communities attached to Fraser River suspended sediments. Fall AGU meeting, Abstract #B11A-0360, Eos, Transactions AGU (poster).
- A166. Epp A, R Luymes, M Bennett, **B Peucker-Ehrenbrink**, B Voss, S Marsh, S Gillies (2013) Comparing the relationship between precipitation and river geochemistry. Fall AGU meeting, Abstract #H51C-1203, Eos, Transactions AGU (poster).
- A167. Luymes R, A Epp, M Bennett, **B Peucker-Ehrenbrink**, B Voss, S Marsh, S Gillies, M Mapili (2013) Impact of land use on dissolved nutrient levels in four tributaries of the Fraser River, BC: Silverdale Creek, Willband Creek, Clayburn Creek and Nathan Creek. (ID 1793125) Fall AGU meeting, Abstract #H51C-1197, Eos, Transactions AGU (poster).
- A168. Gillies SL, S Marsh, A Janmaat, **B Peucker-Ehrenbrink**, BM Voss, RM Holmes (2013) Providing undergraduate research opportunities through the Global Rivers Observatory collaborative network. Fall AGU meeting, Abstract #ED43B-0776, Eos, Transactions AGU (poster).
- A169. Reagan MK, KWW Sims, **B Peucker-Ehrenbrink**, G Girard, AL Role (2013) PGE concentration and Os isotope constraints on the origin of ^{210}Pb - ^{226}Ra disequilibria in lavas from Kilauea volcano, Hawaii. U-Series Meeting at Macquarie University.
- A170. **Peucker-Ehrenbrink B**, G Fiske (2014) Systematic biases in estimates of continental $^{87}\text{Sr}/^{86}\text{Sr}$ runoff. V.M. Goldschmidt Conference, Sacramento.
- A171. Voss BM, TI Eglinton, **B Peucker-Ehrenbrink**, V Galy, J Venditti, D Haught (2014) Residence time of sedimentary organic matter in the Fraser River basin, B.C. V.M. Goldschmidt Conference, Sacramento.
- A172. Galy V, T Eglinton, **B Peucker-Ehrenbrink** (2014) A global perspective of riverine export of terrestrial organic carbon to the ocean. V.M. Goldschmidt Conference, Sacramento.
- A173. Galy V, CJ Hein, H Kudrass, T Eglinton, **B Peucker-Ehrenbrink** (2014) Climate forcing of the terrestrial organic carbon cycle during the last deglaciation: the Himalaya-Bengal fan example. GSA Meeting, Vancouver.
- A174. Gillies SL, A Janmaat, SJ Marsh, **B Peucker-Ehrenbrink**, BM Voss, RM Holmes, S King, K Bertrand (2014) My River My Home: Both Art and Science. Fall AGU Meeting, San Francisco (poster).
- A175. Voss BM, TI Eglinton, **B Peucker-Ehrenbrink**, RGM Spencer, V Galy, ZA Wang (2014) Seasonal dynamics of organic carbon cycling in the Fraser River, Canada. Fall AGU Meeting, San Francisco.

- A176. Marsh SJE, SL Gillies, **B Peucker-Ehrenbrink**, BM Voss, A Janmaat, A Yakemchuk, S Smith, A Faber, R Luymes, A Epp, M Bennett, J Fanslau, B Downey, B Wiebe, H Fraser, G Macklam-Harron, J Herbert (2014) Authentic research experience for University of the Fraser Valley undergraduate students through the Global Rivers Observatory. Fall AGU Conference Abstract ED21B-3451, San Francisco.
- A177. **Peucker-Ehrenbrink B** (2014) The Global Rivers Observatory. Lower Mekong Initiative International Workshop: Cyberinfrastructure and Water Resources in the Lower Mekong Region. August 18-22, 2014, Hanoi, Vietnam.
- A178. Hein CJ, V Galy, H Kudrass, TI Eglinton, **B Peucker-Ehrenbrink** (2014) Climate forcing of the terrestrial organic carbon cycle during the late deglaciation: The Himalaya-Bengal Fan example. Geol. Soc. America Conf. Abstr. 248259 (poster)
- A179. Clemence E, **B Peucker-Ehrenbrink**, S Marsh, S Gillies (2015) Investigation of water chemistry at Silverdale Creek, Mission, BC. Western Division of the Canadian Association of Geographers (WDCAG) abstract
- A180. Faber A, **B Peucker-Ehrenbrink**, S Marsh, E Clemence (2015) Investigation into the impact of residential development on the Kanaka Creek watershed. Western Division of the Canadian Association of Geographers (WDCAG) abstract.
- A181. Brown KA, W William, E Carmack, D McLennan, A Pedersen, A Schimnowski, **B Peucker-Ehrenbrink**, V Galy, A Wang (2015) A geochemical journey: Fingerprinting the rivers of the Canadian Arctic Archipelago. CMOS 2015 Abstract (poster).
- A182. Marsh SJE, SL Gillies, **B Peucker-Ehrenbrink**, BM Voss, A Janmaat, A Yakemchuk, S Smith, A Faber, E Clemence, A Koseos, R Luymes, A Epp, M Bennett, J Fanslau, B Downey, B Wiebe, G Macklam-Harron, H Fraser, J Herbert (2015) Authentic research opportunities through the Global Rivers Observatory project for UFV undergraduate students. Western Division of the Canadian Association of Geographers (WDCAG) abstract.
- A183. Sen IS, J Hemingway, D Sengupta, R Sinha, **B Peucker-Ehrenbrink**, A Chakraborty (2015) Seasonal variation of glacial melt proportion in the headwaters of the Ganges River: preliminary results. Abstract for the EGU General Assembly 2015/GM9.2/SSS9.22.
- A184. Burke A, JF Adkins, J Gaillardet, RM Holmes, JW McClelland, G Paris, **B Peucker-Ehrenbrink**, RGM Spencer, BM Voss (2015) Isotopic constraints on riverine sulfur sources: a global perspective. VM Goldschmidt Conference, Prague, 2015.
- A185. Wang X, N Planavsky, C Reinhard, H Zou, Y Wu, **B Peucker-Ehrenbrink** (2015) Chromium isotope effects induced by metamorphic, weathering, and hydrothermal alterations. VM Goldschmidt Conference, Prague, 2015.
- A186. **Peucker-Ehrenbrink B** (2015) Global Rivers Observatory – A People Network for Studying Globally Significant Rivers. International Society for River Science, La Crosse, WI (**invited featured speaker – plenary lecture**).
- A187. Conrad T, S Nielsen, Hein, **B Peucker-Ehrenbrink**, J Blusztajn (2015) The end of Monterey Submarine Canyon incision and potential river source areas – Os, Pb and Nd isotope constraints from hydrogenous Fe-Mn crusts. Fall AGU Meeting, San Francisco (ID 73952)
- A188. Marsh SJE, SL Gillies, **B Peucker-Ehrenbrink**, A Janmaat, A Faber, E Clemente, A Yakemchuck, M McCabe, A Toner, H Dhaliwal, M Gaultier, S Kanda, R Leffers, G Mahil, D Paulson, K Puri, J Sekhton, B Sidhu, D Sidhu, S Turner, A Strangway (2015) Investigation into seasonal water chemistry variations in the Clayburn Creek watershed, British Columbia: An opportunity for authentic research experience for University of the Fraser Valley undergraduate students. Fall AGU Meeting, San Francisco (Abstract 85494, poster ED11A-0853).
- A189. Marsh SJ, SL Gillies, B Peucker-Ehrenbrink, A Janmaat, E Clemente, A Faber, A Yakemchuck, M McCabe, A Toner, A Strangway, S Turner, D Sidhu, B Sidhu, J Sekhton, K Puri, D Paulson, G Mahil, R Leffers, S Kanda, M Gaultier, H Dhaliwal (2015) Variation in water chemistry parameters in the Clayburn Creek watershed, British Columbia during fall 2015. Fall AGU Meeting, San Francisco (Abstract 85683, poster H13L-1765).
- A190. Brown KA, W Williams, E Carmack, D McLennan, A Pedersen, A Schimnowski, G Fiske, V Galy, ZA Wang, **B Peucker-Ehrenbrink** (2015) Geochemical characteristics of permafrost draining rivers in the Canadian Arctic Archipelago. ArcticNet Conference, Vancouver, Canada, Dec. 2015.
- A191. **Peucker-Ehrenbrink B** (2015) River input to seawater – lessons from the Global Rivers Observatory. The Royal Society at Chicheley Hall, Buckinghamshire: Quantifying fluxes and processes in trace-metal cycling at ocean boundaries, Dec. 9-10, 2015 (invited talk).
- A192. Brown K, W Williams, E Carmack, D McLennan, A Pedersen, A Schimnowski, G Fiske, R Francois, V Galy, ZA Wang, **B Peucker-Ehrenbrink** (2016) Permafrost Draining Rivers in the Canadian Arctic Archipelago:

- Biogeochemical Properties and Carbon Export Potential. International Conference on Permafrost (ICOP), Potsdam, Germany, June, 2016. (oral presentation, published abstract)
- A193. Mitra A, IS Sen, SE Rothenberg, **B Peucker-Ehrenbrink**, M Bizimis (2016) Emerging airborne contaminants in developing countries: A case study from India. 4th Intern. Highly Siderophile Element Geochem. Workshop, Durham University, July 2016.
- A194. Clemence E, **B Peucker-Ehrenbrink**, S Marsh, S Gillies, A Faber, M McCabe, A Toner (2016) A clear look at Clayburn Creek: The effect of land-use on major ions, nutrients and CDOM concentrations at two contrasting sites on Clayburn Creek, B.C., Canada. AAG Abstract (poster).
- A195. Clemence E, **B Peucker-Ehrenbrink**, S Marsh, S Gillies, A Faber, M McCabe, A Toner (2016) The effect of land-use on major and trace ions, nutrients and CDOM concentrations at two contrasting sites on Clayburn Creek in the Fraser River watershed, BC, Canada. WDCAG Abstract (poster).
- A196. Faber A, S Marsh, S Gillies, **B Peucker-Ehrenbrink**, K Brown, E Clemence, Alexandra Toner, M McCabe, S Turner, M Gaultier, A Strangway, A Yakemchuk (2016) Investigation into the possible effects of agricultural practices on the geochemistry of Willband Creek, a Fraser River tributary in Abbotsford, British Columbia. WDCAG Abstract.
- A197. Faber A, **B Peucker-Ehrenbrink**, S Marsh, K Brown, S Gillies, E Clemence, A Toner, M McCabe (2016) Investigation into the possible effects of agriculture on the geochemistry of Willband Creek in Abbotsford, BC, Canada. AAG Abstract (poster).
- A198. Boral S, IS Sen, R Sinha, **B Peucker-Ehrenbrink**, D. Ghosal (2016) Hydrological dependence of Ganges River on Himalayan cyrosphere. 2016 VM Goldschmidt Conference (poster).
- A199. Hein CJ, V Galy, C France-Lanord, A Galy, H Kudrass, **B Peucker-Ehrenbrink** (2016) Post-glacial climate forcing of surface processes in the Ganges-Brahmaputra basin and implications for the global carbon cycle. Fall AGU Meeting (talk).
- A200. Bitterwolf K, A Paytan, **B Peucker-Ehrenbrink** (2016) Stable isotopes and weathering dynamics in the Fraser River basin. Fall AGU Meeting abstract (poster).
- A201. Bourdages M, S Marsh, **B Peucker-Ehrenbrink**, S Gillies, A Strangway, A Groeneweg, P Boegarts, J Paine (2017) Seasonal variability of geochemistry in the Fraser River, British Columbia. 2017 WDCAG Conference, B.C., Canada.
- A202. Paine J, **B Peucker-Ehrenbrink**, V Galy, B Voss, J Venditti, D Haught, S Marsh, S Gillies (2016) Sediment sources and transport in the Fraser River. 2017 ASLO Meeting abstract 28364.
- A203. Brown KA, **B Peucker-Ehrenbrink**, J Blusztajn, R Francois, G Fiske, W Williams, E Carmack, D McLennan, A Schimnowski, V Galy, ZA Wang (2016) ⁸⁷Sr/⁸⁶Sr traces riverine inputs to the Canadian Arctic Archipelago. 2017 ASLO Meeting abstract, Poster 072.
- A204. Bitterwolf K, T Horner, M Auro, **B Peucker-Ehrenbrink**, A Paytan (2017) Non-traditional stable isotopes in submarine groundwater. 2017 ASLO Meeting abstract, Poster 517.
- A205. Zaslowsky I, J Grethe, A Gupta, B Ozyurt, K Stocks, D Valentine, T Whitenack, S Richard, K Lehnert, O Meier, **B Peucker-Ehrenbrink**, L Hsu (2017) Data discovery in complex cross-disciplinary use cases: the Data Discovery Hub Building Block Project. EarthCube All-Hands Meeting, Seattle, June 2017 (poster).
- A206. Zaslowsky I, J Grethe, A Gupta, B Ozyurt, K Stocks, D Valentine, T Whitenack, S Richard, K Lehnert, O Meier, **B Peucker-Ehrenbrink**, L Hsu (2017) Data Discovery Hub: An EarthCube Registry Prototype. EarthCube All-Hands Meeting, Seattle, June 2017 (poster).
- A207. **Peucker-Ehrenbrink B** (2017) How significantly are we disturbing near-surface element cycles? 2017 VM Goldschmidt Conference (**invited keynote lecture, 30 min**).
- A208. **Peucker-Ehrenbrink B** S Johnson, SJ Meaux, K Brown, MJ Blum, MA Allison, J Halder, L Wassenaar, A Cuesta, ES Norris, R Wang (2017) How natural is the dissolved inorganic composition of Mississippi River water? 2017 VM Goldschmidt Conference (talk).
- A209. Bitterwolf K, T Horner, M Auro, **B Peucker-Ehrenbrink**, A Paytan (2017) The barium isotopic composition of the global groundwater flux. 2017 VM Goldschmidt Conference (poster).
- A210. Boral S, IS Sen, D Ghoshal, R Sinha, **B Peucker-Ehrenbrink**, JD Hemingway (2017) Relationship between Indian summer monsoon and melting Himalayan glaciers. 2017 VM Goldschmidt Conference (talk).

- A211. Burke A, JF Adkins, J Gaillardet, RM Holmes, JW McClelland, G Paris, **B Peucker-Ehrenbrink**, RGM Spencer, BM Voss (2017) Sulfur isotopes in rivers: insights into global pyrite oxidation and the modern sulfur cycle. 2017 VM Goldschmidt Conference ().
- A212. Gillies SL, A Janmaat, SJ Marsh, S Kanda, A Yakemchuk, **B Peucker-Ehrenbrink**, B Voss, Global Rivers Observatory (2017) Utilizing local stream ecology to produce a long term data set as an authentic research tool. 2017 Fall AGU Meeting, New Orleans (ED41B-0280, poster).
- A213. **Peucker-Ehrenbrink B** (2017) Is the marine $^{87}\text{Sr}/^{86}\text{Sr}$ cycle balanced? 2017 Fall AGU Meeting, New Orleans, (B54D-01, **invited talk**).
- A214. **Peucker-Ehrenbrink B**, S Johnson, SJ Meaux, K Brown, MJ Blum, MA Allison, J Halder, L Wassenaar, A Cuesta, ES Norris, R Wang (2017) How natural is the dissolved inorganic composition of Mississippi River water? 2017 Fall AGU Meeting, New Orleans (B43-2225, poster).
- A215. Bourdages M, **B Peucker-Ehrenbrink**, S Marsh, S Gillies, P Boegarts, A Groeneweg, K Robertson, A Strangway, J Paine (2017) Presence of microplastics in the Fraser River, British Columbia. Fall AGU Meeting, New Orleans (H31H-1609, poster).
- A216. Marsh SJE, SL Gillies, **B Peucker-Ehrenbrink**, A Janmaat, M Bourdages, D Paulson, A Groeneweg, A Strangway, P Bogaerts, K Roberston, E Clemence, S Smith, A Yakemchuk, A Faber (2017) Providing an authentic research experience for University of the Fraser Valley undergraduate students by investigating and documenting seasonal and longterm changes in Fraser Valley stream water chemistry. 2017 Fall AGU Meeting, New Orleans (ED41B-0279, poster).
- A217. Marsh SJE, S Gillies, **B Peucker-Ehrenbrink**, A Janmaat, M Bourdages, A Strangway, A Groneweg, D Paulson, P Bogaerts, K Robertson, E Clemence, S Smith, A Yakemchuk, A Faber (2017) Seasonal variation in water chemistry in the Clayburn – Willband watershed, Abbotsford, British Columbia, Canada. 2017 Fall AGU Meeting, New Orleans (H31H-1613, poster).
- A218. Zaslavsky I, J Grethe, A Gupta, B Ozyurt, K Stocks, D Valentine, T Whitenack, S Richard, K Lehnert, O Meier, **B Peucker-Ehrenbrink**, L Hsu (2017) EarthCube Data Discovery Hub: Enhancing, curating and finding data across multiple geoscience data sources. 2017 Fall AGU Meeting, New Orleans (IN21B-0049, poster).
- A219. Spencer RGM, JMS Moura, **B Peucker-Ehrenbrink**, RM Holmes, V Galy, TW Drake, (2017) The Pulse of the Amazon. 2017 Fall AGU Meeting, New Orleans (B43F-2195, poster).
- A220. Coppola AI, MWI Schmidt, DB Wiedemeier, UM Hanke, N Haghypour, L Wacker, M Reisser, GS Nascimento, M Usman, TN Blattmann, C Freymond, M Zhao, B Voss, E Schefuss, **B Peucker-Ehrenbrink**, S Abiven, V Galy, TI Eglinton (2018) Global scale fluvial export of resistant particulate black carbon. EUG, BG4.1/AS4.32/SSS6.7 (poster).
- A221. Bourdages M, **B Peucker-Ehrenbrink**, S Marsh, S Gillies, JK Paine, P Bogaerts, A Strangway, K Robertson, A Groeneweg (2018) Microplastics in the Fraser River, British Columbia. WDCAG Conference, Univ Alberta, Edmonton (poster).
- A222. Bourdages M, S Marsh, **B Peucker-Ehrenbrink**, S Gillies, P Bogaerts, A de Wit, T Dirks, A Groeneweg, B Menagh, D Paulson, K Robertson, Z Schroeder, A Strangway, L Westhaver (2018) Water Geochemistry and Bacteria Analysis of the Willbrand Watershed, Abbotsford, British Columbia. WDCAG Conference, Univ Alberta, Edmonton (poster).
- A223. Zaslavsky I, SM Richard, D Valentine, T Whitenack, G Hudman, K Stocks, J Grethe, A Gupta, O Meier, B Ozyurt, **B Peucker-Ehrenbrink** (2018) From Data Discovery to Research Workflows in EarthCube: Linking Catalog and Workbench Tools. EarthCube All-Hands Meeting, Washington D.C., abstract 148 (oral).
- A224. Lee H, **B Peucker-Ehrenbrink**, H Chen, EA Hasenmueller, K Wang (2018) Potassium isotopes in major world rivers: Implications for weathering and the seawater budget. VM Goldschmidt abstract (oral).
- A225. Bitterwolf KK, **B Peucker-Ehrenbrink**, A Eisenhauer, DP Santiago, JA Higgins, A Paytan (2018) Silicate vs carbonate weathering: isotopic co-variability in the Fraser River, Canada. VM Goldschmidt abstract (oral).
- A226. **Peucker-Ehrenbrink B**, M Bourdages, M Beaurepaire, JK Paine, F Klein, V Galy, TJ Mincer, S Gillies, S Marsh (2018) Microplastics in the Fraser River, B.C. Fall AGU Meeting, session H096.
- A227. Zaslavsky I, SM Richard, D Valentine, T Whitenack, G Hudman, K Stocks, J Grethe, A Gupta, O Meier, **B Peucker-Ehrenbrink**, B Ozyurt (2018) Integrating semantically-enhanced cross-disciplinary geoscience resource catalog with a JupyterHub-based analytical workbench: the EarthCube Data Discovery Hub project. Fall AGU Meeting, session IN006.

LIST OF PAST AND CURRENT GRANTS, CONTRACTS AND GIFTS:**Past:**

- NSF-EAR-9417948: *Variations of the Os isotopic composition of seawater across the Cretaceous-Tertiary boundary* (with GE Ravizza, PI) Award: \$132,267, 2 years
- NSF-OCE-9617448: *Continental run-off as a source of osmium in seawater* Award: \$161,892, 2 years
- NSF-OCE-9811209: *Hydrothermal redistribution of PGEs and U-Th-Pb in DSDP Site 504B* (with W Bach and SR Hart, co-PIs) Award: \$216,450, 2 years
- NSF-EAR-9819296: *Seawater ¹⁸⁶Os/¹⁸⁸Os variations during the Cenozoic* (with GE Ravizza, PI) Award: \$204,143, 2 years
- Mellon Independent Study Award: *He and Os isotopes as cosmic dust chronometers for marine sediments* (with M Kurz, co-PI) Award: \$29,650, 2-years
- WHOI-Mentorship Award: *Weathering of black shales with U-Th disequilibrium techniques* (with N Shimizu, mentor) Award: \$30,000, 1 year
- NSF-EAR-9905530: *Acquisition of an electric pulse rock sample disaggregator.* Award: \$108,000, 2 years
- NSF-EAR/IF-0079733: *Acquisition of a MC ICPMS for the Woods Hole Oceanographic Institution dedicated to the study of Earth and Ocean Sciences* (with KWW Sims [PI], SR Hart, MD Kurz and GE Ravizza, co-PI's) Award: \$547,011, 2 years
- NSF-OCE-0118380: *The marine Os isotope record of the Late Eocene and Early Oligocene* (with G Ravizza, PI). Award: \$245,914, 2 years
- WHOI-EOEI: *Developing analytical techniques for platinum group elements in hydrothermal vent and sediment pore fluids* (with G Ravizza and J Seewald, co-PIs) Award: \$74,844, 1 year
- NSF-OCE-0117936: *The cycling of platinum-group elements and rhenium in the Tonga subduction zone* (with W Bach, PI) Award: \$174,839, 2 years
- NSF-EAR-0125873: *Weathering of ultramafic rocks* Award: \$223,021, 2 years
- USSSP/JOI: *Submarine alteration of ultramafic rocks - S. Chamorro seamount (Leg 195, Site 1200)* (with S Humphris and W Bach, co-PIs) Award: \$18,350, 1 year
- NSF-EAR-0228307: SGER: *Re-determining the half-life of ¹⁸⁷Re* Award: \$22,725, 2 years
- NSF-EAR/IF-0318137: *Technician support for the WHOI ICPMS Facility* (with S Hart, K Sims, S Thorrold and R Francois, co-PIs) Award: \$224,200, 3 years
- NSF-EAR-0422965: *Facility Support: Northeast National Ion Microprobe Facility at the Woods Hole Oceanographic Institution* (with GD Layne, co-PI) Award: \$249,000, 2 years
- WHOI-OCCE: *Testing the Snowball Earth Hypothesis* (with M Kurz, co-PI) Award: \$86,799, 2 years
- USSP-IODP-Leg 304/305: *Lithium and osmium isotope studies of metamorphic veins and whole rocks from IODP Leg 304/305* (with M Rosner and W Bach, co-PIs) Award: \$19,809, 1 year
- NSF-EAR-0337677: *Re-Os isotope and PGE systematics of lower oceanic crust* (with P Kelemen, PI) Award: \$299,725, 3 years
- NSF-OCE-0525880: *Collaborative Research: The Marine Os Isotope Record of Extreme Cenozoic Climates* (with G Ravizza, PI) Award: \$194,072, 3 years
- NSF-EAR-0538241: *Volcanic sources of volatile platinum group elements* (with K Sims, co-PI) Award: \$270,000, 3 years
- NSF-EAR-0519387: *The riverine flux of rhenium and molybdenum to the ocean* Award: \$149,808, 2 years
- NSF-EAR/IF-0651366: *Technician support for the WHOI ICPMS Facility* (with S Hart, O Rouxel, K Sims and S Thorrold, co-PIs) Award: \$89,000, 2 years
- WHOI-COI: *An automated large-volume aerosol sampler for the Martha's Vineyard Coastal Observatory* (with M Purcel, co-PI) Award: \$70,000, 2 years

- WHOI-Arctic Research Initiative: *Mineral Weathering in the Arctic* (co-PI: O Rouxel) Award: \$87,894, 2 years
- NSF-OCE-0751616: *Collaborative Research: Intercalibrating Analytical Methods for Osmium Isotopes and Concentrations in Seawater* (with M Sharma, Dartmouth College and G Ravizza, U Hawaii, co-PIs) Award: \$44,530, 2 years
- NSF-ATM-0830212: *SGER: Investigating the Atmospheric Mercury Cycle on Cape Cod* (co-PIs: A McNichol, C Lamborg, C Reddy) Award: \$25,794, 2 years
- NSF-EAR-0821878: *SGER: Platinum Group Element Anomalies at Cryogenian Terminations* Award: \$14,989, 1 year
- WHOI-Doherty Chair in Education, 2009: *Teaching ICP Mass Spectrometry* Award: \$75,000, 1 year
- WHOI Coastal Ocean Institute: *Establishing a Connecticut River Observatory* (co-PI: ZA Wang) Award: \$49,846, 2 years
- NSF-ETBC-0851015: *ETBC: Collaborative Research: Controls on the Flux, Age, and Composition of Terrestrial Organic Carbon Exported by Rivers to the Ocean* (WHOI co-PIs: T Eglinton, S Soule, V Galy; WHRC co-PIs: RM Holmes, S Goetz, N Laporte) WHOI Award: \$1,457,441, 3 years
WHRC Award: \$842,431, 3 years
WHOI Costshare: \$75,000, 3 years
- WHOI Independent, Interdisciplinary Study & Ocean Science and Society Awards: *Exploring the Utility of Neodymium Isotopes as a Tracer of Past Ocean Circulation* (PIs: D Oppo, B Peucker-Ehrenbrink, D McCorkle, W Martin) Award: \$99,556, 2 years
- WHOI ARI: *Transfer of Terrestrial Organic Carbon in the Mackenzie River System* (co-PIs: V Galy, Z Wang, SS Soule, TI Eglinton) Award: \$296,344, 2 years
- Van Beuren Charitable Foundation (CH15552): *Rivers of Rhode Island* (co-PIs: ZA Wang, V Galy) Award: \$124,000, 2 years
- Sitka Sound Science Center – Scientist in Resident Fellowship (October 2012) Award: 1 month, 1 year
- WHOI COI: *2010 Coastal Ocean Institute Fellow* Award: 3 months, 3 years
- WHOI Independent, Interdisciplinary Study & Ocean Science and Society Awards: *Trace Element Fractionation During Hydrocarbon Generation* (co-PI: I Sen) Award: \$45,285, 2 years
- WHOI Independent, Interdisciplinary Study & Ocean Science and Society Awards: *Developing an Autonomous Adaptive Sampling Technology and Methodology for Multi-time Scale River Chemistry Observations* (PI: John Breier) Award: \$96,562, 2 years
- WHOI Interdisciplinary Award: *The Hydrobiogeochemistries of Rivers Draining Rhode Island and Massachusetts* (co-PIs: J. Breier, V. Galy, M. Coolen, C. Lamborg) Award: \$40,762, 1 year
- WHOI OCCI: *Testing Magma Intrusions Into Black Shale as a Trigger for the PETM Carbon Isotope Excursion.* Award: \$29,856, 2 years
- WHOI COI: Support for the WHOI-Tulane University partnership on *Building a Mississippi River Observatory* Award: \$15,000, 1 year
- Mary and Rodney Yanker: *A LOBO system for the Mississippi River Observatory* Donation: \$5,000, 1 year
- WHOI – Mary Sears Visitor Program: *Dr. Bienvendu Dinga (Congo)* Award: \$5,000, 1 year
- NSF-EAR-1226818: *Quantifying Sampling Biases and Silicate-Derived Sr in Continental Runoff: A Coupled $^{87}\text{Sr}/^{86}\text{Sr}$ - $^{88}\text{Sr}/^{86}\text{Sr}$ Study.* Award: \$342,000, 3 years
- McConnell Family Foundation: *An optical sensor for dissolved nitrate concentrations for the Mississippi River Observatory.* (PI Peucker-Ehrenbrink) Award: \$35,504, 2 years
- Krupp Family Foundation grant: *Building a community-supported Mississippi River Observatory.* Award: \$10,000, 1 year (the same amount was donated by the Yankers to Tulane University to support the acquisition of a LOBO system)
- WHOI – Institutional Leadership Development Award: *Building the Global Rivers Observatory* Award: \$50,000, 2 years
- NSF-OCE-1333826: *Collaborative research: The Response of the Terrestrial Carbon Cycle to Climate Change since LGM as Recorded in Bengal Fan Sediments* (PIs: C Hein [VIMS], V Galy, B Peucker-Ehrenbrink) Award: \$293,917, 2 years
- Jane and James Orr: *American Rivers* Donation: \$5,000

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| Jane and James Orr: <i>River Research</i> | Donation: \$5,000 |
| WHOI COI: <i>Biogeochemistry of Sediments from the Fraser River</i> | Award: \$18,025, 2 years |
| Harry Hollum: <i>Global Rivers Observatory</i> | Donation: \$600 |
| WHOI – IR&D (CH20868, 2015): <i>Re-interpreting the Phanerozoic ⁸⁷Sr/⁸⁶Sr isotope record of seawater</i> | Award: \$96,013, 1 year |
| Jane and James Orr: <i>River Research</i> | Donation: \$5,000 |
| WHOI – OCCI (21055.00, 2015): <i>Assessing Marine Carbon Delivery from Permafrost-Draining Rivers in the Canadian Arctic Archipelago</i> (PIs: K Brown, B Peucker-Ehrenbrink) | Award: \$35,885, 2 years. |
| Anonymous matching gift: <i>Mekong River Observatory</i> | Donation: \$25,000 |
| Toni Howland: <i>Mekong River Observatory</i> | Donation: \$7,500 |
| Jane and James Orr: <i>River Research</i> | Donation: \$5,000 |
| Harry Hollum: <i>Global Rivers Observatory</i> | Donation: \$600 |
| WHOI – Mary Sears Visitor Program: <i>Dr. Van Pham Dang Tri (Viet Nam)</i> | Award: \$4,842, 1 year |
| Jane and James Orr: <i>River Research (9'16)</i> | Donation: \$5,000 |
| WHOI – Independent Study Award: | Award: \$57,449, 1 year |

Current:

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| NSF-ICER-1639557: EarthCube Building Blocks: Collaborative Proposal: EarthCube Data Discovery Hub (PI: I Zaslawsky, RD Gates, et al., WHOI sub-contract) | Award: \$76,502, 3 years |
| Harry Hollum: <i>Global Rivers Observatory (4'17)</i> | Donation: \$750 |
| Robin and Mark Hayes: <i>Global Rivers Observatory (10'17)</i> | Donation: \$2,000 |
| Rick and Linda Semels: <i>Global Rivers Observatory (11'17)</i> | Donation: \$25,000 |

Last updated: August 30, 2018