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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:**

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. of Göttingen, Germany (6/1989–12/1989); Teaching Assistant, Univ. of Göttingen, Germany (4/1986–7/1988).

**AWARDS/HONORS:**

2013 WHOI's Institutional Leadership Development Award; Sitka Sounds Science Center – Scientist in Residence Fellow (October 2012); Adjunct Faculty Member, Faculty of Geography, University of the Fraser Valley, Abbotsford, B.C., Canada (1/2012–12/2014); 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: GE Ravizza, MD Kurz, 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.

**ARTICLES IN REFEREED JOURNALS AND BOOKS:**

1. Gerler J and **B Peucker-Ehrenbrink** (1991) Instrumental neutron activation analysis of UNS-SpS glass sand reference material. *J. Radioanal. Nuc. Chem., Lett.*, 155 (1), 55-63.
2. **Peucker-Ehrenbrink B** and C Schnier (1992) Investigation of rare earth elements in quartz from the Bavarian Pfahl, Germany, by means of instrumental neutron activation analysis. *Nucl. Geophys.*, 6, 249-260.
3. **Peucker-Ehrenbrink B** and H-J Behr (1993) Chemistry of hydrothermal quartz in the post-Variscan "Bavarian Pfahl" system, F.R. Germany. *Chem. Geol.*, 103, 85-102.

4. **Peucker-Ehrenbrink B**, AW Hofmann and SR Hart (1994) Hydrothermal lead transfer from mantle to continental crust: the role of metalliferous sediments. *Earth Planet. Sci. Lett.*, 125, 129-142.
5. **Peucker-Ehrenbrink B**, G Ravizza and AW Hofmann (1995) The marine  $^{187}\text{Os}/^{186}\text{Os}$  record of the past 80 million years. *Earth Planet. Sci. Lett.*, 130, 155-167.
6. **Peucker-Ehrenbrink B** and G Ravizza (1996) Continental runoff of osmium into the Baltic Sea. *Geology*, 24, 327-330.
7. **Peucker-Ehrenbrink B** (1996) Accretion of extraterrestrial matter during the last 80 million years and its effect on the marine Os isotope record. *Geochim. Cosmochim. Acta*, 60, 3187-3196.
8. Mühe R, **B Peucker-Ehrenbrink**, CW Devey and D Garbe-Schönberg (1997) On the redistribution of Pb in the oceanic crust during hydrothermal alteration. *Chem. Geol.*, 137, 67-77.
9. Schmitz B, **B Peucker-Ehrenbrink**, M Lindström and M Tassinari (1997) Accretion rates of meteorites and cosmic dust in the early Ordovician. *Science*, 278, 88-90.
10. **Peucker-Ehrenbrink B** and JD Blum (1998) Re-Os isotope systematics and weathering of Precambrian crustal rocks: implications for the marine Os isotope record. *Geochim. Cosmochim. Acta*, 62, 3193-3203.
11. Woodhouse OB, G Ravizza, K Kenison Falkner, PJ Statham and **B Peucker-Ehrenbrink** (1999) Osmium in seawater: concentration and isotopic composition vertical profiles in the eastern Pacific Ocean. *Earth Planet. Sci. Lett.*, 173, 223-233.
12. Hassler DR, **B Peucker-Ehrenbrink** and GE Ravizza (2000) Rapid determination of Os isotopic compositions by sparging  $\text{OsO}_4$  into a magnetic-sector ICP-MS. *Chem. Geol.*, 166, 1-14.
13. **Peucker-Ehrenbrink B** and GE Ravizza (2000) The effects of sampling artifacts on cosmic dust flux estimates: A reevaluation of nonvolatile tracers (Os, Ir). *Geochim. Cosmochim. Acta*, 64, 1965-1970.
14. **Peucker-Ehrenbrink B** and RE Hannigan (2000) Effects of black shale weathering on the mobility of rhenium and platinum group elements. *Geology*, 28, 475-478.
15. Martin CE, **B Peucker-Ehrenbrink**, GJ Brunskill and R Szymczak (2000) Sources and sinks of unradiogenic osmium runoff from Papua New Guinea. *Earth Planet. Sci. Lett.*, 183, 261-274.
16. **Peucker-Ehrenbrink B** and GE Ravizza (2000) The marine Os isotope record. *Terra Nova*, 12 (5), 205-219.
17. Martin CE, **B Peucker-Ehrenbrink**, G Brunskill and R Szymczak (2001) Isotope geochemistry of osmium in a tropical estuary. *Geochim. Cosmochim. Acta*, 65, 3193-3200.
18. **Peucker-Ehrenbrink B** (2001) Iridium and osmium as tracers of extraterrestrial matter in marine sediments. In *Accretion of extraterrestrial matter throughout Earth's history* (B Peucker-Ehrenbrink and B Schmitz, Eds.), Kluwer Acad./Plenum Publ., New York, 163-178.
19. **Peucker-Ehrenbrink B** and B-m Jahn (2001) Rhenium-osmium isotope systematics and platinum group element concentrations: Loess and the upper continental crust. *Geochem. Geophys. Geosyst.*, 2 (10), 2200, doi:10.1029/2001GC000172.
20. Schmitz B, M Tassinari and **B Peucker-Ehrenbrink** (2001) A rain of ordinary chondrite meteorites in the early Ordovician. *Earth Planet. Sci. Lett.*, 194, 1-15.
21. Jaffe LA, **B Peucker-Ehrenbrink** and S Petsch (2002) Mobility of rhenium, platinum group elements and organic carbon during black shale weathering. *Earth Planet. Sci. Lett.*, 198, 339-353.
22. Koeberl C, **B Peucker-Ehrenbrink**, WU Reimold, A Shukolyukov and GW Lugmair (2002) Comparison of the osmium and chromium isotopic methods for the detection of meteoritic components in impactites: Examples from the Morokweng and Vredefort impact structures, South Africa. In: *Catastrophic events and mass extinctions: Impacts and beyond* (C Koeberl and K MacLeod, Eds.), *Geol. Soc. Am., Spec. Publ.*, 356, 607-618.
23. **Peucker-Ehrenbrink B** and MW Miller (2002) Quantitative bedrock geology of the conterminous United States of America. *Geochem. Geophys. Geosyst.*, 3 (10), 8000, doi: 10.1029/2002GC000366.
24. **Peucker-Ehrenbrink B** (2002) Comment on "Residence time of osmium in the oceans" by R Oxburgh. *Geochem. Geophys. Geosyst.*, 3 (10), 1057, doi: 10.1029/2001GC000297.
25. Bach W, **B Peucker-Ehrenbrink**, SR Hart, and JS Blusztajn (2003) Geochemistry of hydrothermally altered oceanic crust: DSDP/ODP Hole 504B – Implications for seawater-crust exchange budgets and Sr- and Pb-isotopic evolution of the mantle. *Geochem. Geophys. Geosyst.*, 4 (3), 8904, doi:10.1029/2002GC000419, 2003. Correction to "Geochemistry of

- hydrothermally altered oceanic crust: DSDP/OPD Hole 504B – Implications for seawater-crust exchange budgets and Sr- and Pb-isotopic evolution of the mantle. *Geochem. Geophys. Geosyst.*, 4 (5), 8907, doi: 10.1029/2003GC000547.
26. **Peucker-Ehrenbrink B** and MW Miller (2003) Quantitative bedrock geology of Alaska and Canada. *Geochem. Geophys. Geosyst.*, 4 (4), 8005, doi: 10.1029/2002GC000449.
  27. Ravizza GE and **B Peucker-Ehrenbrink** (2003) The marine  $^{187}\text{Os}/^{188}\text{Os}$  record of the Eocene-Oligocene transition: the interplay of weathering and glaciation. *Earth Planet. Sci. Lett.* 210, 151-165.
  28. **Peucker-Ehrenbrink B**, W Bach, SR Hart, JS Blusztajn and T Abbruzzese (2003) Rhenium-osmium isotope systematics and platinum group element concentrations in oceanic crust from DSDP/ODP Sites 504 and 417/418. *Geochem. Geophys. Geosyst.*, 4 (7), 8911, doi: 10.1029/2002GC000414.
  29. Ravizza G and **B Peucker-Ehrenbrink** (2003) Chemostratigraphic evidence of Deccan volcanism from the marine Os isotope record. *Science*, 302, 1392-1395.
  30. Rauch S, HF Hemond and **B Peucker-Ehrenbrink** (2004) Recent changes in platinum group element concentrations and osmium isotopic composition in sediments from an urban lake. *Environ. Sci. Technol.*, 38, 396-402.
  31. **Peucker-Ehrenbrink B** and MW Miller (2004) Quantitative bedrock geology of East and Southeast Asia (Brunei, Cambodia, eastern and southeastern China, East Timor, Indonesia, Japan, Laos, Malaysia, Myanmar, North Korea, Papua New Guinea, Philippines, far eastern Russia, Singapore, South Korea, Taiwan, Thailand, Vietnam). *Geochem. Geophys. Geosyst.*, 5, (1), Q01B06, doi: 10.1029/2003GC000619.
  32. Rauch S, HF Hemond and **B Peucker-Ehrenbrink** (2004) Source characterisation of atmospheric platinum group element deposition into an ombrotrophic peat bog. *J. Environ. Monit.*, 6 (4), 355-343, doi:10.1039/b316547g.
  33. Schmitz B, **B Peucker-Ehrenbrink**, C Heilmann-Clausen, G Åberg, F Asaro and C-TA Lee (2004) Basaltic explosive volcanism, but no comet impact, at the Paleocene-Eocene boundary: high-resolution chemical and isotopic records from Egypt, Spain and Denmark. *Earth Planet. Sci. Lett.*, 225, 1-17.
  34. Koeberl C, K Farley, **B Peucker-Ehrenbrink** and M Sephton (2004) Geochemistry of the end-Permian extinction event in Austria and Italy: No evidence for an extraterrestrial component. *Geology*, 32 (12), 1053-1056.
  35. Rauch S, HF Hemond, C Barbante, M Owari, GM Morrison, **B Peucker-Ehrenbrink** and U Wass (2005) Importance of automobile exhaust catalyst emissions for the deposition of platinum, palladium, and rhodium in the Northern Hemisphere. *Environm. Sci. & Technol.*, 39 (21), 8156-8162.
  36. Rauch S, HF Hemond, **B Peucker-Ehrenbrink**, KH Ek and GM Morrison (2005) Platinum group element concentrations and osmium isotopic composition in urban airborne particles from Boston, Massachusetts. *Environm. Sci. & Technol.*, 39 (24), 9464-9470.
  37. Rauch S, HF Hemond, GM Morrison, C Barbante, M Owari, **B Peucker-Ehrenbrink** and U Wass (2006) Regional and global transport of platinum group elements from automobile catalysts. In: *Palladium Emissions in the Environment: Analytical Methods, Environmental Assessment and Health Effects* (F Zereini and F Alt, Eds.), pp 295-305, Springer, Berlin.
  38. Rauch S, HF Hemond and **B Peucker-Ehrenbrink** (2006) Source characterization of platinum group elements using the isotopic composition of osmium. In: *Palladium Emissions in the Environment: Analytical Methods, Environmental Assessment and Health Effects* (F Zereini and F Alt, Eds.), pp 407-418, Springer, Berlin.
  39. Dalai TK, GE Ravizza and **B Peucker-Ehrenbrink** (2006) The Late Eocene  $^{187}\text{Os}/^{188}\text{Os}$  excursion: Chemostratigraphy, cosmic dust flux and the early Oligocene glaciation. *Earth Planet. Sci. Lett.*, 241 (3-4), 477-492.
  40. Schmitz B, BB Ellwood and **B Peucker-Ehrenbrink**, A El Hassani and P Bultynck (2006) Platinum group elements and  $^{187}\text{Os}/^{188}\text{Os}$  in a purported impact ejecta layer near Eifelian-Givetian stage boundary, Middle Devonian. *Earth Planet. Sci. Lett.*, 249, 162-172.
  41. Rauch S, **B Peucker-Ehrenbrink**, LT Molina, MJ Molina, R Ramos and HF Hemond (2006) Platinum group elements in airborne particles in Mexico City. *Environ. Sci. & Technol.*, 40, 7554-7560.
  42. McDonald I, **B Peucker-Ehrenbrink**, L Coney, L Ferriere and WU Reimold and C Koeberl (2007) Search for a meteoritic component in drill cores from the Bosumtwi impact structure, Ghana: Platinum-group element contents and osmium isotopic characteristics. *Meteor. Planet. Sci.*, 42 (4/5), 743-753.
  43. **Peucker-Ehrenbrink B** and MW Miller (2007) Quantitative bedrock geology of Brazil. *Geochem., Geophys., Geosyst.*, 8 (5), Q05014, doi: 10.1029/2006GC001505.

44. **Peucker-Ehrenbrink B** and MW Miller (2007) Quantitative bedrock geology of the continents and large-scale drainage regions. *Geochem., Geophys., Geosyst.*, Q06009, 8 (5), doi: 10.1029/2006GC001544.
45. Rosner M, L Ball, **B Peucker-Ehrenbrink**, J Blusztajn, W Bach and J Erzinger (2007) A simplified, accurate and fast method for Li isotope analysis of rocks and fluids, and  $\delta^7\text{Li}$  values of seawater and rock reference materials. *Geostand. Geoanal. Res.*, 31 (2), 77-88, doi: 10.1111/j.1751-908X.2007.00843.x.
46. Schmitz B, DAT Harper, **B Peucker-Ehrenbrink**, S Stouge, C Alwmark, A Cronholm, SM Bergström, M Tassinari and W Xiaofeng (2007) Asteroid breakup linked to the Great Ordovician Biodiversification Event. *Nature Geosci.*, doi: 10.1038/ngeo.2007.37, 1-5.
47. Paquay FS, GE Ravizza, TK Dalai and **B Peucker-Ehrenbrink** (2008) Estimating chondritic impactor size using the marine osmium isotope record. *Science*, 320, 214-218.
48. Robinson N, G Ravizza, R Coccioni, **B Peucker-Ehrenbrink** and R Norris (2009) A high-resolution marine  $^{187}\text{Os}/^{188}\text{Os}$  record for the late Maastrichtian: Distinguishing the chemical fingerprints of Deccan volcanism and the KP impact event. *Earth Planet. Sci. Lett.*, 281, 159-168.
49. Miller CA, **B Peucker-Ehrenbrink** and L Ball (2009) Precise determination of rhenium isotopic composition by multi-collector inductively-coupled plasma mass spectrometry. *J. Anal. Atom. Spectrosc.*, 24, 1069-1078, doi: 10.1039/B818631f.
50. **Peucker-Ehrenbrink B** (2009) Land2Sea database of river drainage basin sizes, annual water discharges and suspended sediment fluxes. *Geochem., Geophys., Geosyst.*, 10 (6), Q06014, doi: 10.1029/2008GC002356.
51. Fiege K, CA Miller, L Robinson, R Figueroa and **B Peucker-Ehrenbrink** (2009) Strontium isotopes in Chilean rivers: the flux of unradiogenic continental Sr to seawater. *Chem. Geol.*, 268, 337-343, doi: 10.1016/CHEMGEO4601.
52. Rauch S, **B Peucker-Ehrenbrink**, M Kylander, DJ Weiss, A Martinez-Cortizas, D Heslop, C. Olid, TM Mighall and HF Hemond (2010) Anthropogenic forcings on the surficial osmium cycle. *Environ. Sci. Technol.*, 44 (3), 881-887, doi: 10.1021/es903961p (*with cover photo*).
53. Galy V, C France-Lanord, **B Peucker-Ehrenbrink** and P Huyghe (2010) Sr-Nd-Os evidence for a stable erosion regime in the Himalaya during the past 12 Myr. *Earth Planet. Sci. Lett.*, 290, 474-480.
54. **Peucker-Ehrenbrink B**, MW Miller, T Arsouze and C Jeandel (2010) Continental bedrock and riverine fluxes of strontium and neodymium isotopes to the oceans. *Geochem., Geophys., Geosyst.*, 11 (3), Q03016, doi: 10.1029/2009GC002869.
55. Krabbenhöft A, A Eisenhauer, F Böhm, H Vollstaedt, J Fietzke, V Liebetrau, N Augustin, **B Peucker-Ehrenbrink**, MN Müller, C Horn, BT Hansen, N Nolte and K Wallmann (2010) Constraining the marine strontium budget with natural strontium isotope fractionation ( $^{87}\text{Sr}/^{86}\text{Sr}^*$ ,  $\delta^{88/86}\text{Sr}$ ) of carbonates, hydrothermal solutions and river waters. *Geochim. Cosmochim. Acta*, 74, 4097-4109.
56. Toulkeridis T, **B Peucker-Ehrenbrink**, N Clauer, A Kröner, M Schidlowski and W Todt (2010) Pb-Pb age, stable isotope and chemical composition of Archean magnesite, Barberton Greenstone Belt, South Africa. *J. Geol. Soc., London*, 167, 943-952.
57. Ferrow E, V Vajda, C Bender Koch, **B Peucker-Ehrenbrink** and PS Willumsen (2011) Multiproxy analysis of a new terrestrial and a marine Cretaceous-Paleogene (K-Pg) boundary site from New Zealand. *Geochim. Cosmochim. Acta*, 75, 657-672. Erratum to "Ferrow E, V Vajda, C Bender Koch, **B Peucker-Ehrenbrink** and PS Willumsen (2011) Multiproxy analysis of a new terrestrial and a marine Cretaceous-Paleogene (K-Pg) boundary site from New Zealand. *Geochim. Cosmochim. Acta*, 75, 657-672", *Geochim. Cosmochim. Acta*, 75 (2011) 6725. Corrected version of this article can be found at doi: 10.1016/j.gca.2011.08.017.
58. Baioumy HM, LB Eglinton and **B Peucker-Ehrenbrink** (2011) Rhenium-osmium isotope and platinum group element systematics of marine vs. non-marine organic-rich sediments and coals from Egypt. *Chem. Geol.*, 285, 70-81, doi:10.1016/j.chemgeo.2011.02.026.
59. Jeandel C, **B Peucker-Ehrenbrink**, MT Johnes, CR Pearce, EH Oelkers, Y Godderis, F Lacan, O Aumont and T Arsouze (2011) Ocean margins: The missing term in oceanic element budgets? *Eos*, 92, No 28, 217-218, 28 June 2011.
60. Schmitz, B, PR Heck, C Alwmark, NT Kita, MMM Meier, **B Peucker-Ehrenbrink**, T Ushikubo and JW Valley (2011) Determining the impactor of the Ordovician Lockne crater: Oxygen and neon isotopes in chromite versus sedimentary PGE signatures. *Earth Planet. Sci. Lett.*, 306, 149-155.

61. Miller CA, **B Peucker-Ehrenbrink**, BD Walker, and F Marcantonio (2011) Re-assessing the surface cycling of molybdenum and rhenium. *Geochim. Cosmochim. Acta*, 75 (22), 7146-7179.
62. **Peucker-Ehrenbrink B**, K Hanghoj, T Atwood and PB Kelemen (2012) Rhenium-osmium isotope systematics and platinum group element concentrations in oceanic crust. *Geology*, G32733, doi: 10.1130/G32431.1.
63. Huang K-F, J Blusztajn, DW Oppo, WB Curry and **B Peucker-Ehrenbrink** (2012) High-precision and accurate determinations of neodymium isotopic compositions at nanogram levels in natural materials by MC-ICP-MS. *J. Anal. Atom. Spectrosc.*, doi: 10.1039/c2ja30123g.
64. Sen IS and **B Peucker-Ehrenbrink** (2012) Anthropogenic disturbance of element cycles at the Earth's surface. *Environ. Sci. & Technol.*, 46 (16), 8601-8609, doi: 10.1021/es301261x (*with cover photo*).
65. **Peucker-Ehrenbrink B** and G Ravizza (2012) Chapter 8: Osmium isotope stratigraphy. In *The Geologic Time Scale 2012* (FM Gradstein, JG Ogg, MD Schmitz, GJ Ogg, et al., Eds.), Elsevier, Boston, p. 145-166, doi: 10.1016/B978-0-444-59425-9.00008-1.
66. **Peucker-Ehrenbrink B**, M Sharma, and L Reisberg (2013) Meeting Report: Recommendations for Analysis of Dissolved Osmium in Seawater, *Eos, Trans. AGU.*, 94 (7), Feb. 12, 2013.
67. Beck AJ, MA Charette, JK Cochran, ME Gonnee, **B Peucker-Ehrenbrink** (2013) Dissolved strontium in the subterranean estuary – Implications for the marine strontium isotope budget. *GCA*, 117, 33-52, doi: 10.1016/j.gca.2013.03.021.
68. Kolker A, MA Engle, **B Peucker-Ehrenbrink**, NJ Geboy, DP Krabbenhoft, MH Bothner, MT Tate (2013) Atmospheric mercury and fine particulate matter in coastal New England: Implications for mercury and trace element sources in the northeastern United States. *Atmospheric Environment* 79, 760-768.
69. Sen I, **B Peucker-Ehrenbrink**, N Geboy (2013) Complex anthropogenic sources of platinum group elements in aerosols on Cape Cod, U.S.A. *Environm. Sci. Technol.*, 47 (18), 10,188-10,196, doi: 10.1021/es4016348.
70. Voss B, **B Peucker-Ehrenbrink**, TI Eglinton, G Fiske, DB Monluçon, C LeCroy, S Pal, SL Gillies, S Marsh, A Janmaat, M Bennett, B Downey, J Fanslau, H Fraser, G Macklam-Harron, M Martinec, B Wiebe (2014) Tracing river chemistry in space and time: A high-resolution study of variability in dissolved inorganic constituents of the Fraser River, Canada. *Geochim. Cosmochim. Acta* 124, 283-308, doi: 10.1016/j.gca.2013.09.006.
71. Sen IS, **B Peucker-Ehrenbrink** (2014) Determination of osmium concentrations and  $^{187}\text{Os}/^{188}\text{Os}$  of crude oils and source rocks by coupling high-pressure, high-temperature digestion with sparging  $\text{OsO}_4$  into a multicollector inductively coupled plasma mass spectrometer. *Anal. Chem.* 86, 2982-2988, doi: 10.1021/ac403413y.
72. Schmitz B, GR Huss, MMM Meier, **B Peucker-Ehrenbrink**, RP Church, A Cronholm, MB Davies, PR Heck, A Johansen, K Keil, P Kristiansson, G Ravizza, M Tassinary, F Terfelt (2014) A fossil winonaite-like meteorite in Ordovician limestone: A piece of the impactor that broke up the L-chondrite parent body? *Earth Planet. Sci. Lett.* 400, 145-152, doi: 10.1026/j.epsl.2014.05.034.

#### ACCEPTED/IN PRESS:

73. Rauch S, **B Peucker-Ehrenbrink** (accepted) Sources of Platinum Group Elements in the Environment. In: *Platinum Group Elements in the Environment* (Ed: F. Zereini, Wiseman).

#### MANUSCRIPTS SUBMITTED/IN PREPARATION:

74. Galy V, **B Peucker-Ehrenbrink**, TI Eglinton (submitted) Erosion controls the global export of carbon from the terrestrial biosphere. *Nature*
75. Dubin A, **B Peucker-Ehrenbrink** (submitted) The importance of marine organic-rich shales to the geochemical cycles of rhenium and osmium. *Chem. Geol.*

#### OTHER REPORTS (not peer-reviewed):

- R1. **Peucker-Ehrenbrink B** (1989) Die Geochemie des Bayerischen Pfahlquarzes – INA-,  $\text{H}_2\text{O}$ -, Dekrepitations- und Isotopen-Analysen. *Diplomarbeit (MS thesis equivalent)*, University of Göttingen, Germany, 95 p.
- R2. Ackermann D, J O'Connor, **B Peucker-Ehrenbrink** (1993) Petrographic/Petrologic investigation of SO-84 magmatic rocks. In: *Cruise report SO-84: The St. Helena hotspot* (C. Devey et al., Eds.), *Berichte - Reports, Geol.-Pal. Inst. Univ. Kiel*, Nr. 64, 36-39.



- R3. **Peucker-Ehrenbrink B** (1993) HIMU-signature in metalliferous sediments around St. Helena. In: *Cruise report SO-84: The St. Helena hotspot* (C. Devey et al., Eds.), *Berichte - Reports, Geol.-Pal. Inst. Univ. Kiel*, Nr. 64, 65-67.
- R4. **Peucker-Ehrenbrink B** (1994) Pb and Os isotope systematics of metalliferous sediments from the Pacific Ocean. *Ph.D. Dissertation*, University of Mainz, Germany, 69 p.
- R5. **Peucker-Ehrenbrink B**, B Schmitz (2001) Preface. In *Accretion of extraterrestrial matter throughout Earth's history* (B Peucker-Ehrenbrink and B Schmitz, Eds.), Kluwer Acad./Plenum Publ., New York, xiii-xiv.

#### PUBLISHED ABSTRACTS:

- A1. **Peucker B** (1989) Die Geochemie des Bayerischen Pfahlquarzes. *Ber. dt. Mineral. Ges., Beih. Eur. J. Mineral.*, 1, 145.
- A2. **Peucker-Ehrenbrink B**, AW Hofmann (1993) Mantle lead in metalliferous sediments. *Terra abstracts* 5 (1), 554-555. (EUG 7 meeting)
- A3. Toulkeridis T, **B Peucker-Ehrenbrink**, A Kröner, M Schidlowski, W Todt (1993) Geochemistry and age of Archaean magnesites. *Terra abstr., Abstr. Suppl. No.2, Vol.5*, 52. (EUG 7 meeting)
- A4. **Peucker-Ehrenbrink B**, AW Hofmann (1993) Bilanzierung des Bleitransfers vom Mantel in die kontinentale Kruste mit Hilfe metallreicher Sedimente. *Ber. Dt. Mineral. Ges., Beiheft Eur. J. Mineral.* 5, No. 1, 137. (DMG meeting)
- A5. Toulkeridis T, **B Peucker-Ehrenbrink**, A Kröner, M Schidlowski (1993) Geochemistry and timing of magnesite formation in the Barberton Greenstone Belt. 16th Colloq. African Geology, *Abstr. Vol. II* (Ed. R. Maphalala and M. Mabuza), Mbabame, Swaziland, 345-347.
- A6. **Peucker-Ehrenbrink B**, G Ravizza, AW Hofmann (1994) Die  $^{187}\text{Os}/^{186}\text{Os}$  Meerwasser-Entwicklung seit 85 Ma. (German ODP meeting)
- A7. **Peucker-Ehrenbrink B**, G Ravizza, AW Hofmann (1994) Seawater Os-isotope variations over the past 80 Ma. *Eos* 75, No. 16, 141. (invited)
- A8. **Peucker-Ehrenbrink B**, AW Hofmann, SR Hart (1994) Hydrothermal Pb-transfer from mantle to continental crust: the role of metalliferous sediments. *Eos* 75, No. 16, 361.
- A9. **Peucker-Ehrenbrink B**, G Ravizza, AW Hofmann (1994) The marine Os-isotope record over the past 85 Ma. *US Geol. Surv. Circular* 1107, 249.
- A10. **Peucker-Ehrenbrink B**, AW Hofmann, SR Hart (1994) Hydrothermal Pb-transfer from mantle to continental crust. Abstract for the workshop "The Mantle-Ocean Connection", Amsterdam, August 24-26.
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- A12. **Peucker-Ehrenbrink B**, G Ravizza, AW Hofmann (1994) Die Meerwasser-Entwicklung des  $^{187}\text{Os}/^{186}\text{Os}$  im Känozoikum. *Ber. Dt. Mineral. Ges., Beiheft Eur. J. Mineral.* 6, No. 1, 207.
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- A65. Rauch S, HF Hemond, **B Peucker-Ehrenbrink**, C Barbante, A Varga, M Masanori, M Osaki, N Tsuzaki, GM Morrison, U Wass (2004) Regional and global dispersion of platinum group elements from automobile catalysts – an answer? AGS Annual Meeting, Göteborg, 21-24 March 2004. (**Best Poster Award**)



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- A67. Brauns CM, **B Peucker-Ehrenbrink**, W Bach, T Abbruzzese, SE Humphris (2004) Seafloor weathering of serpentinized peridotites and consequences for Os isotope geochemistry. EUG meeting, Nice, France, April 2004.
- A68. Kingsley R, A Bezos, S Escrig, A Gannoun, M Humayun, T Meisel, **B Peucker-Ehrenbrink**, I Puchtel, M Sharma, J-G Schilling (2004) Interlaboratory comparison of PGE and Re in a mid-ocean ridge basalt. Eos, Transactions AGU 84, No. 4x, V51B-02 (Spring AGU meeting, Montreal).
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- A71. Ravizza G, **B Peucker-Ehrenbrink**, T Abbruzzese (2004) Flood basalt volcanism and the marine Os isotope record. VM Goldschmidt Conference, Copenhagen, June 2004. (**invited talk**)
- A72. Bach W, **B Peucker-Ehrenbrink**, T Abbruzzese, T Worthington (2004) Osmium in the Tonga subduction zone: slab versus lithosphere. VM Goldschmidt Conference, Copenhagen, June 2004, poster.
- A73. Dalai TK, G Ravizza, **B Peucker-Ehrenbrink**, T Abbruzzese (2004) The marine Os isotopic record in the Eocene-Oligocene sections from the Equatorial Pacific. Eos Trans. AGU 85, No. 47, abstract 3222, poster.
- A74. Walker B, **B Peucker-Ehrenbrink** (2004) Rhenium and molybdenum in rivers and estuaries. Eos Trans. AGU 85, No. 47, abstract 8525, poster.
- A75. **Peucker-Ehrenbrink B** (2004) The effects of bedrock age on radiogenic marine isotope records. Eos Trans. AGU 85, No. 47, abstract 4086, poster.
- A76. Walker B and **B Peucker-Ehrenbrink** (2005) Evidence for non-conservative behavior of rhenium in aquatic systems. ASLO meeting, Salt Lake City, February 2005 (**invited REU student poster - Outstanding Student Poster Award**)
- A77. Rauch S, HF Hemond, **B Peucker-Ehrenbrink**, C Barbante, A Varga, M Owari, N Tsuzaki, GM Morison, U Wass (2005) Evidence for widespread dispersion of platinum group elements from automobile catalysts. AGS Annual Meeting, March 2005, Boston (**Best Poster Award**).
- A78. Rosner M, W Bach, J Erzinger, **B Peucker-Ehrenbrink**, T Worthington (2005) Isotopic constraints on lithium cycling in the Tonga island arc/back-arc system. German IODP Meeting (14.-16. 03. 2005, Potsdam, Germany).
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- A80. Rauch S, HF Hemond, **B Peucker-Ehrenbrink**, C Barbante, A Varga, M Owari, GM Morrison, U Wass (2005) Platinum group elements from automobile catalyst emissions to global distribution. ICHMET Conference, Rio de Janeiro, June 2005.
- A81. Sims KWW, **B Peucker-Ehrenbrink**, T Mather, D Pyle, RS Martin, RP-J Gauthier, A Aiuppa (2005) Sniffing for clues to the dinosaurs demise: Measurement of osmium isotope compositions and platinum group element abundances in volcanic emissions. Eos Trans. AGU 86, No. 52, abstract V21E-0669 (Fall AGU poster).
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- A83. **Peucker-Ehrenbrink B**, BD Walker, CE Martin, F Marcantonio, PA Raymond (2006) Reevaluating the aquatic rhenium cycle. Eos Trans. AGU 87, No. 36, Ocean Sci. Meet., Suppl., Abstract 1764 (oral OS43A-06).
- A84. **Peucker-Ehrenbrink B**, MW Miller (2006) Marine <sup>87</sup>Sr/<sup>86</sup>Sr record mirrors the evolving upper continental crust. V.M. Goldschmidt Conference, Melbourne, Australia. (**invited talk**).
- A85. **Peucker-Ehrenbrink B**, PF Hoffman (2006) Sedimentary PGE anomalies at Snowball Earth terminations. V.M. Goldschmidt Conference, Melbourne, Australia (oral).
- A86. Rauch S, **B Peucker-Ehrenbrink**, LT Molina, MJ Molina, R Ramos, HF Hemond (2006) Implications of airborne PGE concentration changes in Mexico City. Oral presentation at the Highway and Urban Environment Symposium, Cyprus, June 2006.

- A87. Rauch S, HF Hemond, **B Peucker-Ehrenbrink**, C Barbante, A Varga, M Owari, N Tsuzaki, GM Morrison, U Wass (2006) Evidence for widespread contamination by platinum group elements from automobile catalysts. Poster at the Highway and Urban Environment Symposium, Cyprus, June 2006. **(Best Poster Award)**
- A88. Rauch S, **B Peucker-Ehrenbrink**, HF Hemond (2006) Osmium in the environment. Oral presentation at the Highway and Urban Environment Symposium, Cyprus, June 2006.
- A89. **Peucker-Ehrenbrink B**, G Ravizza (2006) The marine  $^{187}\text{Os}/^{188}\text{Os}$  record across the Cretaceous/Paleogene boundary. IODP/ICDP Scientific Drilling of the Chicxulub Impact Crater workshop, Potsdam, Sept. 10-12, 2006. (Poster).
- A90. Sims KWW, **B Peucker-Ehrenbrink**, T Mather, D Pyle, RS Martin, RP-J Gauthier, A Aiuppa (2007) Sniffing for clues to the dinosaurs demise: Measurement of osmium isotope compositions and platinum group element abundances in volcanic emissions.. Pacific Rim Volcano Conference, Taipei, Taiwan (Poster).
- A91. Miller CA, **B Peucker-Ehrenbrink**, LA Ball (2007) Natural rhenium isotope variations. *Geochim. Cosmochim. Acta* 71 (15), Suppl. S, A666.
- A92. Rosner M, W Bach, **B Peucker-Ehrenbrink**, J Erzinger, B Plessen (2007) Carbonate and anhydrite veins from altered gabbroic oceanic crust (Atlantis Massif, MAR 30°N). *Geochim. Cosmochim. Acta* 71 (15), Suppl. S, A853.
- A93. Rosner M, W Bach, **B Peucker-Ehrenbrink**, J Erzinger, B Plessen (2007) Late stage carbonate and anhydrite veining: Down-hole C, O and Sr isotope profiles from the gabbroic Atlantis Massif Oceanic Core Complex (MAR 30°N), IODP Expeditions 304/305. German IODP-OCDP Meeting 2007 (19.-21.03.2007, Potsdam-Golm, Germany).
- A94. Rosner M, W Bach, J Erzinger, **B Peucker-Ehrenbrink**, T Worthington, D Rhede (2007) Carbonate veins from oceanic core complexes: Lithium and boron cycling in the Tonga subduction zone. Workshop “State of the Arc 2007” (29.01-05.02.2007), Termas Puyehue, Chile.
- A95. **Peucker-Ehrenbrink B** (2007) Paleogeology of continental drainage. *Geochim. Cosmochim. Acta* 71 (15), Suppl. S, A783.
- A96. 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.
- A97. **Peucker-Ehrenbrink B**, C Jeandel (2007) Modeling Nd isotope composition of continental inputs to the ocean. *Eos, Trans. AGU*, Fall AGU abstract # (invited talk)
- A98. **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 #
- A99. Miller CA, **B Peucker-Ehrenbrink**, LA Ball (2007) Rhenium isotope variability. *Eos, Trans. AGU*, Fall AGU abstract
- A100. Rosner M, **B Peucker-Ehrenbrink**, W Bach (2008) The platinum group element and osmium isotope inventory of Atlantis Massif. German IODP Kolloquium, Hannover.
- A101. **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.
- A102. Miller CA, **B Peucker-Ehrenbrink**, LA Ball (2008) Rhenium isotopes in natural systems. *Geochim. Cosmochim. Acta* 72 (12), Suppl. 1, A628.
- A103. 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.
- A104. 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
- A105. **Peucker-Ehrenbrink B**, G Ravizza (2008) The marine Os isotope record of the Jemeni-Ethiopian Flood Basalt eruption. *Eos, Trans. AGU*, Fall AGU abstract # 10941 (poster).
- A106. 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. 40<sup>th</sup> LPSC, Abstract 2009LPI...40.1161S.
- A107. **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).
- A108. 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).

- A109. Krabbenhöft A, A Eisenhauer, H Vollstaedt, N Augustin, J Fietzke, V Liebetrau, N Nolte, **B Peucker-Ehrenbrink**, 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).
- A110. 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).
- A111. **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).
- A112. 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.
- A113. 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.
- A114. Neubert N, CA Miller, **B Peucker-Ehrenbrink** (2010) Rhenium isotope variations in modern environments. EGU Conference Abstracts.
- A115. 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.
- A116. **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)
- A117. 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)
- A118. Waters CA, **B Peucker-Ehrenbrink**, P Hoffman (2010) Platinum group element and Re-Os isotope systematics of Cryogenian glacial terminations. Goldschmidt Conference Abstracts (poster)
- A119. Neubert N, CA Miller, **B Peucker-Ehrenbrink**, M Schubert (2010) Rhenium isotope variations in modern environments. Goldschmidt Conference Abstracts (oral)
- A120. 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)
- A121. 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 15<sup>th</sup> 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.
- A122. 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?)
- A123. 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.
- A124. 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).
- A125. 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-0398?).
- A126. **B Peucker-Ehrenbrink**, CA Waters, PF Hoffman, MD Kurz (2010) Extraterrestrial matter chronometry in sediments. Eos, Trans. AGU, Fall AGU abstract (talk)
- A127. 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).

- A128. **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).
- A129. 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.
- A130. Voss B, **B Peucker-Ehrenbrink**, TI Eglinton, V Galy, DB Monluçon, 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).
- A131. 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.
- A132. 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.
- A133. 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.
- A134. 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.
- A135. Sen IS, **B Peucker-Ehrenbrink** (2011) Human impact on global element cycles. VM Goldschmidt Conference.
- A136. 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.
- A137. 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.
- A138. 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.
- A139. Fanslau J, S Marsh, S Gillies, **B Peucker-Ehrenbrink**, B Voss, R Spencer, P Mann, E Bulygina (2012) Analysis of the optical biochemical 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.
- A140. Fraser H, J Herbert, S Gillies, **B Peucker-Ehrenbrink**, B Voss, P Mann (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.
- A141. 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.
- A142. Beck AJ, MA Charette, JK Cochran, ME Gonneea, **B Peucker-Ehrenbrink** (2012) Can submarine groundwater discharge balance the oceanic strontium isotope budget? VM Goldschmidt Conference, Montreal (oral, abstract xxxx).
- A143. 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).
- A144. **Peucker-Ehrenbrink B**, G Ravizza (2012) The osmium isotope record of seawater: 20 years of research. VM Goldschmidt Conference, Montreal (oral, abstract lxxx).

- A145. Feng X, JE Vonk, H Bao, V Galy, B Voss, P Mann, Y Wu, **B Peucker-Ehrenbrink**, DJ Repeta, RM Holmes, DB Montlucon, TI Eglinton (2012) Contrasting radiocarbon age of lignin phenols in the dissolved and particulate matter in major river systems. 21<sup>st</sup> International Radiocarbon Conference, Paris, July.
- A146. 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.
- A147. 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).
- A148. 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.
- A149. Sen IS, **B Peucker-Ehrenbrink** (2012) Anthropogenic disturbance of element cycles at the Earth's surface. Fall AGU meeting, Abstract #, Eos, Transactions AGU.
- A150. **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.
- A151. 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.
- A152. Galy, V, **B Peucker-Ehrenbrink**, T Eglinton (2012) Biogenic and petrogenic carbon export... Fall AGU meeting, Abstract #, Eos, Transactions AGU.
- A153. **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**).
- A154. 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.
- A155. 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).
- A156. 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**).
- A157. **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).
- A158. Voss B, TI Eglinton, **B Peucker-Ehrenbrink**, V Galy (2013) Tracing riverine organic matter with inorganic radioisotopes. ASLO, New Orleans, Feb. 2013 (oral).
- A159. Hemingway JD, VV Galy, **B Peucker-Ehrenbrink** (2013) Characterizing organic carbon export from four New England Rivers. ASLO, New Orleans, Feb. 2013 (poster).
- A160. 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.
- A161. **Peucker-Ehrenbrink B** (2013) Crustal evolution mirrors seawater Sr and Nd isotope records. Fall AGU meeting, Abstract #EP51D-02, Eos, Transactions AGU.
- A162. 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**).
- A163. 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).
- A164. 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).
- A165. 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).
- A166. 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).



- A167. Reagan MK, KWW Sims, **B Peucker-Ehrenbrink**, G Girard, AL Role (2013) PGE concentration and Os isotope constraints on the origin of  $^{210}\text{Pb}$ - $^{226}\text{Ra}$  disequilibria in lavas from Kilauea volcano, Hawaii. U-Series Meeting at Macquarie University.
- A168. **Peucker-Ehrenbrink B**, G Fiske (2014) Systematic biases in estimates of continental  $^{87}\text{Sr}/^{86}\text{Sr}$  runoff. V.M. Goldschmidt Conference, Sacramento.
- A169. Voss BM, TI Eglinton, **B Peucker-Ehrenbrink**, V Galy, J Venditti, D Hought (2014) Residence time of sedimentary organic matter in the Fraser River basin, B.C. V.M. Goldschmidt Conference, Sacramento.
- A170. 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.
- A171. 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.
- A172. 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).
- A173. 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.
- A174. 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.
- A175. **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.
- A176. 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)