

## Publication list after 2005, Kéiko Hattori

### Refereed Publications

125. Shen, P., Hattori, K., Pan, H., Jackson, S., Seitmuratova, E., Oxidation condition and metal-fertility of granitic magmas: zircon trace element data from the porphyry Cu deposits in the Central Asian Orogenic Belt. ***Economic Geology***. *In press*.
124. Adlakha, E., Hattori, K., 2015. Compositional variation and timing of aluminum phosphate-sulphate minerals along the P2 fault, and in association with the McArthur River uranium deposit, Athabasca Basin, Saskatchewan. ***American Mineralogist***, doi: [org/10.2138/am-2015-5069](https://doi.org/10.2138/am-2015-5069). *in press*
123. Kagoshima, T., Sano, Y., Takahata, N., Maruoko, T., Fischer, T.P. and Hattori, K., 2015. Sulphur geodynamic cycle. ***Nature Scientific Research*** 5:8330. doi: [10.1038/srep08330](https://doi.org/10.1038/srep08330)
122. Ryan, P.C., West, D.P., Hattori, K., Studwell, S., Kim, J., 2015. The influence of metamorphic grade on arsenic in metasedimentary bedrock aquifer. a case study from western New England, USA. ***Science of the Total Environment***. V. 505, p. 1320-1330, doi: [j.scitotenv.2014.05.021](https://doi.org/10.1016/j.scitotenv.2014.05.021)

### 2014

121. Belley, P.M., O'Neil, J., Hattori, K. 2014. Spinel and aspidolite from the Des Cèdres Dam occurrence, Notre-Dame-du-Laus, Québec, Canada. ***Rocks and Minerals***. *Accepted in November, 2014*
120. Gao, Y., Li, W., Li, Z., Zhang, Z., Wang, J., Hattori, K., Zhang, Z., Geng, J., 2014. Geology, Geochemistry and Genesis of Tungsten-Tin deposits in the Baiganhu district in the Northern Kunlun belt, Northwestern China. ***Economic Geology*** vol. 109. p.1787-1799.
119. DeHoog, C.J., Hattori, K., Jung, H., 2014. Titanium- and water-rich metamorphic olivine in high-pressure serpentinites from the Voltri Massif (Ligurian Alps, Italy): evidence for deep subduction of high-field strength and fluid-mobile elements ***Contributions to Mineralogy and Petrology***, vol. 167, no. 3, pp. 1-15 DOI [10.1007/s00410-014-0990-x](https://doi.org/10.1007/s00410-014-0990-x),
118. Sano, Y., Hara, T., Takahata, N., Kawagucci, S., Honda, M., Nishio, Y., Tanigawa, W., Hasegawa, A., Hattori, K., 2014. Helium-3 anomaly suggest a fluid pathway from mantle to trench during the 2011 Tohoku-Oki earthquake. ***Nature Communication*** 5: # 3084 , DOI: [10.1038/ncomms4084](https://doi.org/10.1038/ncomms4084)

### 2013.

117. Sader, J.A., Hattori, K., Brauneder, K., Hamilton, S.M., 2013. The influence of buried kimberlite on methane production in overlying sediment, Attawapiskat region, James Bay Lowlands, Ontario. ***Chemical Geology***, vol. 360-361, p. 173-

185. doi: 10.1016/j.chemgeo.2013.10.007.

116. Ryan, P, Kim, J, Hattori, K., Thompson, A., 2013 Dissolved arsenic in a fractured slate aquifer system, northern Appalachians, USA: Influence of bedrock geochemistry, groundwater flow paths, redox and ion exchange. **Applied Geochemistry**, vol. 39 . p. 181-192  
[doi.org/10.1016/j.apgeochem.2013.09.010](https://doi.org/10.1016/j.apgeochem.2013.09.010)..
115. Deschamps, F., Godard, M., Guillot, S., Hattori, K., 2013. Geochemistry of subduction zone serpentinites: A review. **Lithos**, vol 178, p. 96-127.  
<http://dx.doi.org/10.1016/j.lithos.2013.05.019>
114. Wang, J., Hattori, K. and Xie, Z., 2013. Oxidation state of lithospheric mantle on the northeastern margin of the North China Craton—Implications for geodynamic processes. **International Geology Review**, vol. 55, p 1418-1444.  
DOI:10.1080/00206814.2013.780722.
113. Saumur, B.M., Hattori, K.H., 2013. Zoned Cr-spinel in forearc serpentinites along the northern Caribbean Margin, Dominican Republic. **Mineralogical Magazine**, vol. 77, p. 117-136. DOI: 10.1180/minmag.2013.077.1.11
112. Guillot, S., Hattori, K., 2013. Serpentinites: Essential roles in geodynamics, arc volcanism, sustainable development, and the origin of life. **Elements**, vol. 9, no. 2, p. 95-98. Doi: 10.2113/gselements.9.2.25
111. Evans, B.W, Hattori, K., Barronet, A. 2013. Serpentinites: What, Why and When. **Elements**, vol. 9, p. 99-106. Doi: 10.2113/gselements.9.2.99
110. Xie, Zhipeng, Hattori, K., Wang, J. 2013. Origin of serpentinites in the Sulu ultra high-pressure belt, eastern China. **Lithos** vol. 178, p.158-170.  
[doi.org/10.1016/j.lithos.2012.12.003](https://doi.org/10.1016/j.lithos.2012.12.003),
109. Lanari, P., Riel, N., Guillot, S., Vidal, O., Schwartz, S., Pecher, A., Hattori, K., 2013. Deciphering high-pressure metamorphism in collisional context using microprobe-mapping methods: application to the Stak eclogitic massif (NW Himalaya). **Geology**. vol. 41, p. 111-114, doi:10.1130/G33523.1
- 2012**
108. Boutonet, E., Leloup, P.H., Arnaud, N., Paquette, J.L., Davis, W.J. and Hattori, K., 2012. Synkinematic magmatism, heterogeneous deformation, and progressive strain localization in a strike-slip shear zone. The case of the right-lateral Karakorum fault. **Tectonics**. June 6, 2012, 2011TC003049
107. Deschamps, F., Godard, M., Guillot, S., Chauvel, C., Andreani, M., Hattori, K., Wunder, B., France, L., 2012. Behaviour of fluid-mobile elements in serpentinites from abyssal to subduction environments: Examples from Cuba and Dominican Republic. *In Press*, **Chemical Geology**, doi: 10.1016/j.chemgeo.2012.04.009.
106. Wang, J., Hattori, K., Xu, W., Yang, Y., Xie, Z., Liu, J., Song, Y., 2012, Origin of ultramafic xenoliths in the Laiwu high-Mg diorites from western Shandong Province: evidence based on the abundance of platinum-group elements and oxidation state. **International Geology Review**. vol. 54 (10), p. 1203-1218.

105. Wang, J., Liu, J., Hattori, K., Xu, W., Xie, Z., Song, Y., **2012**, Behavior of siderophile and chalcophile elements in the subcontinental lithospheric mantle beneath the Changbaishan Volcano, NE China, ***Acta Geologica Sinica*, vol. 86 (2) p. 409-421.**

Takahashi, Y., Chatellier, X., Hattori, K., Kato, K., Fortin, D., 2011. Erratum to "adsorption of rare earth elements onto bacterial cell walls and its implications for REE sorption onto natural microbial mats. ***Chemical Geology***, v.288, p.178-180.

## **2011**

104. Sader, J.A., Hattori, K.H., Hamilton, S., Brauneder, K., 2011. Metal binding to dissolved organic matter and adsorption to ferrihydrite in shallow peat groundwaters: Application to diamond exploration in the James Bay Lowlands, Canada. ***Applied Geochemistry***, vol. 26, p. 1649-1664. DOI: 10.1016/j.apgeochem.2011.04.022.

103. Nakada, R., Takahashi, Y., Tsunogai, U., Zheng, G., Shimizu, H., and Hattori, K., 2011. A geochemical study of inland mud volcanoes in the Junggar Basin, China; Evidence of deep reservoir. ***Applied Geochemistry*** vol. 26, p.1065-1076. doi:10.1016/j.apgeochem.2011.03.011

102. Deschamps, F., Guillot, S., Godard, M., Andreani, M., Hattori, K., **2011**. Serpentinites acting as a sponge for fluid-mobile elements in abyssal peridotites, ***Terra Nova*** vol. 23, p. 171-178. DOI: 10.1111/j.1365-3121.2011.00995.x.

101. Sader, J., Hattori, K., Kong, J., Hamilton, S., Brauneder, K., **2011**. Peat groundwater geochemistry and diamond exploration applications over three Attawapiskat Kimberlites, James Bay Lowlands, Canada ***Geochemistry: Exploration, Environment, Analysis***, vol. 11, p. 193-210.

100. Leloup, P.H., Boutonnet, E., Davis, W.J. and Hattori, K., **2011**, Long-lasting intracontinental strike-slip faulting; new evidence from the Karakorum shear zone in the Himalayas. ***Terra Nova***. V. 23, p. 92–99.

99. De Hoog, JCM, Janák, M., Vrabec, M., Hattori, KH, **2011**, Ultramafic cumulates of oceanic affinity in an intracontinental subduction zone: ultrahigh-pressure garnet peridotites from Pohorje (Eastern Alps, Slovenia). In "***Ultrahigh pressure metamorphism***" Eds. L. Dobrzhinetskaya, S. Cuthbert, W. Faryad, Elsevier, Amsterdam, DOI: 10.1016/B978-0-12-385144-4.00012-6

98. Yang, Q-F., Wang, J., Hattori, K., Pan, X-D., Liu, J.L., Xie, ZP and Yue, So., **2011**. Redox state of the lithospheric mantle beneath Huinan-Jingyu area, southern Jilin Province, China. ***Acta Petrologica Sinica***, 2011, issue 6, p.1797-1809

## **2010**

97. Hattori, K., Guillot, S., Saumur, BM, Tubrett, M.N., Vidal, O., Morfin, S., **2010**. Reply to Comment by Abbott and Draper. ***Lithos***. vol. 117, p. 327-330.

96. Hattori, K. H., Takahashi, Y. and Augé, T., **2010**, Mineralogy and origin of oxygen-bearing platinum-iron grains based on X-ray absorption spectroscopy study. ***American Mineralogist***. vol. 95, no.3, p. 622-630.
95. Hattori, K.H., Wallis, S., Enami, T. and Mizukami, T., **2010**, Subduction of mantle wedge peridotites: Evidence from the Higashi-akaishi ultramafic body in the Sanbagawa metamorphic belt, ***Island Arc***. vol. 19, p. 192-207. doi: 10.1111/j.1440-1738.2009.00696x.
94. Hattori, K., Guillot, S., Saumur, B.M., Tubrett, M.N., Vidal, O., Morfin, S., **2010**. Corundum-bearing garnet peridotites from northern Dominican Republic: a metamorphic product of an arc cumulate in the Caribbean subduction zone, ***Lithos***. v. 114, p. 437-450.
93. Saumur, B-M., Hattori, K., Guillot, S., **2010**, Contrasting origins of serpentinites in a subduction complex, northern Dominican Republic. ***Geological Society of America Bulletin***, vol. 122, p. 292-304. doi: 10.1130/B26530.1, Data Repository 2009134
92. Deschamps, F., Guillot, S., Godard, M., Chauvel, C., Andreani, M., Hattori, K. **2010**, *In situ* characterization of serpentinites from hydrated forearc mantle wedge: Timing of serpentinization and fluid mobile elements behaviour in subduction zones. ***Chemical Geology*** vol. 269, p. 262-277.
91. Wang, J., Hattori, K.H., Stern, C.R., Liu, J., **2010**. Behavior of platinum-group elements during mantle metasomatism by asthenospheric melt. ***Earth Science Frontiers***, v. 17 (1), p. 164-176.
90. Hattori, K.H., Hamilton, S., Kong, J., Gravel, J., **2009**. Soil geochemical survey over concealed kimberlites in the Attawapiskat area in northern Canada. ***Geochemistry, Exploration, Environments, and Analysis***. vol. 9; No. 2, p. 139-150. doi:10.1144/1467-7873/09-200.
89. Guillot, S., Hattori, K., Schwartz, S. & Vidal, O., **2009**, Exhumation processes in oceanic and continental contexts: high pressure and ultrahigh pressure rocks” In (edited by S. Lallemand & F. Funiciello) ***Subduction Zone Geodynamics***, from Springer (doi; 10.1007/978-3-540-87974-9), p.175-205.

## **2008**

88. Hattori, K.H. & Hamilton, S., **2008**. Geochemistry of peat over concealed kimberlites in the Attawaiskat area, James Bay Lowlands, northern Canada. ***Applied Geochemistry***, v. 23, p. 3767-3782.
87. Wang, J., Hattori, K.H. & Stern, C., **2008**, Metasomatic origin of garnet orthopyroxenites in the subcontinental lithospheric mantle underlying Pali Aike volcanic field, southern South America. ***Mineralogy and Petrology*** v.. 94, p. 243-258.

86. Morishita, T., Hattori, K., Terada, K., Matsumoto, T., Yamamoto, K., Arai, S., **2008**. Geochemical investigations on apatite-rich layers in the Finero phlogopite-peridotite massif (Italian Western Alps) and ion microprobe dating of apatite. **Chemical Geology** vol. 251, p. 99-111
85. Wang, J., Hattori, K.H., Li, J-P. & Stern, C.R., **2008**, Oxidation state of Paleozoic subcontinental lithospheric mantle below the Pali Aike volcanic field in southernmost Patagonia. in press, **Lithos**, v. 105, p. 98-110.
84. Hamilton, S.M. & Hattori, K., **2008**, Spontaneous potential and redox responses over a forest ring. **Geophysics** vol. 73, no. 3, p. B67-75.
83. Guillot, S., Mahéo, G., de Sigoyer, J., Hattori, K. & Pêcher, A., **2008**, Tethyan and Indian subduction viewed from the Himalayan high- to ultrahigh- pressure metamorphic rocks. **Tectonophysics**. v. 451, p. 225-241.

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82. Gorczyk, W., Guillot S., Gerya, T.V., Hattori, K.H., **2007**, Asthenospheric upwelling, oceanic slab retreat and exhumation of UHP mantle rocks: insights from Greater Antilles: **Geophysical Research Letters**, vol. 34, L 21309, doi:10.1029/2007GL031059.
81. Takahashi, Y., Uruga, T., Suzuki, K., Tanida, H., Terada, Y., Hattori, K.H., **2007**, Local atomic structures of rhenium and radiogenic osmium in molybdenite. **Geochimica et Cosmochimica Acta**, vol. 71, p. 5180-5190.
80. Hattori, K. H., & Guillot, S., **2007**, Geochemical character of serpentinites associated with high- to ultrahigh-pressure metamorphic rocks in the Alps, Cuba, and the Himalayas: Recycling of elements in subduction zones, **Geochemistry Geophysics and Geosystems**, vol. 8, Q09010, doi:10.1029/2007GC001594, 27 p.
79. Hinchey, J.G. & Hattori, K.H., **2007**, Lead isotope study of the late Archean Lac des Iles deposit, Canada: enrichment of platinum group elements by ponded sulphide melt. **Mineralium Deposita**. vol. 42, p. 601-611.
78. Guillot, S. Replumaz, A., Hattori, K.H., & Strzeczynski, P., **2007**, Initial geometry of western Himalaya and ultra-high pressure metamorphic evolution. **Journal of Asian Earth Science** vol. 30, p. 557-564.
77. Wang, J., Hattori, K.H., Kilian, R. & Stern, C.R., **2007**, Metasomatism of sub-arc mantle peridotites below southern South America: reduction of fO<sub>2</sub> by slab-melt. **Contributions to Mineralogy and Petrology**, vol. 153, pp.607-624

### 2006

76. Pettigrew, N.T. & Hattori, K.H., **2006**, The Quetico intrusions of the western Superior Province: Neo-Archean examples of Alaskan/Ural-type mafic-ultramafic intrusions. ***Precambrian Research***. vol. 149, p. 21-42.

### **2005.**

75. Hattori, K., Takahashi, Y., Guillot, S. & Johanson, B. **2005**, Occurrence of Arsenic (V) in fore-arc mantle serpentinites: X-ray absorption spectroscopy study. ***Geochimica et Cosmochimica Acta***. vol. 69, pp.5585-5596.

74. Sakakibara, N., Takahashi, Y., Okumura, K., Hattori, K.H., Yaita, T., Suzuki, K. and Shimizu, H., 2005, Speciation of osmium in an iron meteorite and a platinum ore specimen based on X-ray absorption fine-structure spectroscopy. ***Geochemical Journal***. vol 39, no. 4 pp. 383-389.

73. Cameron, E.M. and Hattori, K., **2005**, Platinum group elements in geochemical exploration. ***Mineralogical Association of Canada, Short Course Series***, vol. 35, pp. 287-307

72. Hinchey, J.G., Hattori, K.H., **2005**, Magmatic mineralization and hydrothermal enrichment of the High Grade Zone at the Lac des Iles palladium mine, northern Ontario, Canada. ***Mineralium Deposita***, vol. 40, pp. 13-23.

71. Takahashi, Y., Chatellier, X., Hattori, K.H., Kato, K. and Fortin, Danielle., **2005**, Adsorption of rare earth elements onto bacterial cell walls and its implication for REE sorption onto natural microbial mats. ***Chemical Geology***, vol. 219, pp. 53-67.

70. Hinchey, J.G., Hattori, K.H., Lavigne, M., **2005**, Geology, petrology, and controls on PGE mineralization of the Southern Roby and Twilight Zones, Lac des Iles mine, Canada. ***Economic Geology***, vol. 100 no. 1, p.43-61.

### **Guest Editor of Special Volumes**

Hattori, K. and Matsuhisa, Y., **2010**. **Geochemical Advances: Following Prof Sakai.** – Professor H. Sakai Memorial volume. *Geochemical Journal* v. 44.

### **Non-refereed Other publications** students and pdf are double underlined

11. Power, M.J., Hattori, K., Sorba, C., Potter, E., **2012**. Geochemical anomalies in the soil and uppermost sandstones overlying the Phoenix uranium deposit, Athabasca Basin, Saskatchewan, Canada. Submitted, as a manuscript for a Geological Survey of Canada Open File Report.

10. Hattori, K. and Matsuhisa, Y., **2010**,. "Preface. *Geochemical Advances: Following Prof Sakai*. *Geochemical Journal* v. 44, p. 449-450.

9. Sader, J.S., Hattori, K.H., Hamilton, S.M., Brauneder, K., **2009**, Geochemical responses in peat waters over kimberlites at the Attawapiskat kimberlites, James Bay Lowlands, Ontario, Canada. accepted, **Ontario Geological Survey, Open File Report**.
8. Brauneder, K., Hamilton, S., Hattori, K. Southam, G., **2008**. Detailed Investigation of chemical and microbiological parameters over forest-ring edges in Northern Ontario. **Ontario Geological Survey, Open File Report**, OFR 6226 page.028-1 to 028-8.
7. Sader, J.S., Hattori, K.H., Hamilton, S.M., and Brauneder, K. **2007**, Surface media geochemical sampling at the Victor kimberlite region, northern Ontario, and the Kirkland Lake kimberlite region, Northeastern Ontario. **Ontario Geological Survey Open File Report** 6213, p.19-1 to 19-6.

**Abstracts, refereed conference presentations (past 7 years)**  
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**2012.**

189. Szabó, C.Hattori, K., Griffin, W, O'Reilly, S., Előd, L., **2012**. Tracking mantle metasomatism under the Carpathian-Pannonian Region using siderophile and chalcophile elements. *European Mineralogical Conference*.
188. Ryan, P.C., Hattori, K., Takahashi, Y., **2012**. Arsenic in tetrahedral and octahedral sites in phyllosilicates. *49th Annual meeting of the Clay Minerals Society*.
187. Hattori, K., DeHoog, C.J., Jung, H., **2012**. Titanium- and water-rich olivine in the Voltri Complex. *European Mineralogical Conference*.
186. Van Lankvelt, A., Schneider, D., Hattori, K., Biczock, **2012**. Anatomy of a Mesoarchean Batholith. Institute of Lake Superior Geology Conference, Thunder Bay.
185. Stern, F., Hattori, K., Bedard, J., **2012**. Tectonic Evolution of the Northern Appalachian Mountains recorded in the Bay of Island Ophiolite Complex, Canada. Mtg of "Ophiolites and Related Ore and Industrial Minerals", Turkey.
184. Szabó, C.Hattori, K., Griffin, W, O'Reilly, S., Előd, L., **2012**, Origins of mantle xenoliths in the Carpathian-Pannonian region. *Joint Mtg, Central European Mineralogical Conference and Carpathian Conference*.
183. Duff, J., Hattori, K., Schneider, D.A., Cossette, E., Jackson S. and Biczok, J., **2012**. Using garnet to record mineralization in a BIF-hosted orogenic Au deposit. 2012 Goldschmidt conference.
182. Stern, F., Hattori, K., Saumur, B-M, Jackson, S., **2012**, Minor and trace element abundance of Cr-spinel in forearc mantle peridotites. Abstract, 2012 Goldschmidt conference

181. Xie, Zhipeng, Hattori, K., Wang, J., 2012. Enrichment of fluid-mobile elements in forearc mantle peridotites in the Sulu UHP belt, China. Abstract 2012 Goldschmidt Conference.
180. Szabó, C., Hattori, K., Griffin, W., O'Reilly, S., Előd, L., 2012. PGE abundance of upper mantle xenoliths from the Carpathian Pannonian Region. Abstract, 2012 Goldschmidt conference
179. Poulin, R., Grice, J., Hattori, K., 2012. Borate minerals; hilgardite, veatchite and volkovskite from marine evaporate deposits of New Brunswick; New data and geological interpretation. Abstract, 2012 Joint meeting of Geological Association of Canada and Mineralogical Association of Canada
178. Kelly, C., Hattori, K., Biczok, J., Schneider, D., 2012. Cathodeluminescent images and trace element composition of quartz from auriferous veins in the Musselwhite Mine. Abstract, 2012 Joint meeting of Geological Association of Canada and Mineralogical Association of Canada.
177. Dann, J., Hattori, K., Sorba, C., 2012. Alteration minerals and elemental assemblages around the Phoenix uranium deposit, Athabasca Basin, Saskatchewan. Joint Annual Meeting of the Geological Association of Canada and Mineralogical Association of Canada.
176. Duff, J., Hattori, K., Schneider, D.A., Cossette, E., Biczok, J., 2012. Garnet as a tracer for the mineralization in a banded-iron formation-hosted orogenic gold deposit: evidence from the Musselwhite deposit, North Caribou greenstone belt, western Superior Province of Canada. Abstract, Joint Annual GAC-MAC meeting.
175. Schneider, D.A., Van Lankvelt, A., Kalbfleisch, T., Duff, J., Hattori, K., McFarlane, C. 2012. Vertical vs horizontal Archean tectonics: a study of the North Caribou Greenstone Belt, NW Ontario. GAC-MAC meeting Abstract.
174. Power, M., Hattori, K., Sorba, C., 2012. Geochemical anomalies in surface media and uppermost sandstones overlying the concealed Phoenix uranium deposit, Athabasca Basin, Saskatchewan. Joint Annual Meeting of the Geological Association of Canada and Mineralogical Association of Canada.
173. Leloup, P.H., Boutonnet, E., Arnaud, N., Paquette, J.L., Davis, W.J., Hattori, K. 2012. Synkinematic magmatism, heterogeneous deformation, and progressive strain localization in a strike-slip shear zone. The case of the right-lateral Karakorum fault. Abstract, EGU 2012 Mtg. EGU2012-7978.

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172. Pedro, J., Hattori, K., Desrochers, A., 2011. Géochimie des shales noirs de la Formation du Macasty dans le Bassin d'Anticosti: résultats préliminaires. Association Pétrolière et Gazière du Québec.



171. Stern, F.J., Hattori, K.H., **2011**. Mantle evolution recorded in Cr-spinel from the Bay of Island Ophiolitic Complex, Northern Appalachians. Abst. Geological Society of America Annual Meeting. Vol. 43, no. 5. p.493
170. Saumur, B.M., Hattori, K.H., Stern, F. & Jackson, S., **2011**. Major and trace element compositions of Cr-spinel from serpentinized forearc mantle peridotites: insights on geochemical processes during melt extraction and metamorphism. *Geological Society of America, Abstracts with Programs*, **43**, No. 5, 588.
169. Pedro, J., Hattori, K., Desrochers, A., **2011**. Geochemical characterization of the reservoir of shale-gas in the Anticosti Island. Abst. Geological Society of America Annual Meeting. Vol. 43, no. 5. p.115
168. Duff, J., Hattori, K., Schneider, D., Biczok, J. **2011**. Neodymium Isotopes and Geochemistry from the North Caribou Greenstone Belt, Superior Province. Abst. Geological Society of America Annual Meeting. Vol. 43, no. 5. P.470
167. Van Lankvelt, A., Schneider, D., Hattori, K., Biczok, J. **2011**. Punctuated magmatism in the North Caribou greenstone belt, Superior Province. Abst. Geological Society of America Annual Meeting. Vol. 43, no. 5. P.470.
166. Kalbfleisch, N., Duff, J., Schneider, D., Hattori, K., Biczok, J., 2011. Evidence for 2.45 Ga tectonism recorded in the North Caribou Greenstone Belt. Abst. Geological Society of America Annual Meeting. Vol. 43, no. 5. P.471
165. Van Lankvelt, A., Schneider, D., Hattori, K., Biczok, J., **2011**. Neoproterozoic magmatism in the NW Superior Craton: Granitoids of the North Caribou Terrane. Institute of Lake Superior Geology Conference, WI.
164. Wang, J. Hattori, K. **2011**. Behavior of siderophile and chalcophile elements in the subcontinental lithospheric mantle beneath the Changbaishan Tianchi Volcano, NE China. International Conference on Craton Formation and Destruction.
163. Delost, Andrea, Hattori, K., Jackson, S., Ishii, T., **2011**. Trace element characterization of Cr-spinel in forearc mantle peridotites from the Marianas and Himalayas. Annual Mtg. of Geological Association of Canada-Mineralogical Association of Canada.
162. Stern, Fabio, Hattori, K., Bedard, J., **2011**. Partitioning of PGE between silicate melt and residual mantle peridotites in the Bay of Islands Ophiolite, Newfoundland. Abst., Joint Annual Mtg. of Geological Association of Canada-Mineralogical Association of Canada.
161. Niu, L., Hattori, K., Takahashi, Y., Ryan, P., **2011**. Occurrence and speciation of arsenic in Appalachian serpentinites in northern Vermont, USA. Abst., Joint Annual Mtg. of Geological Association of Canada-Mineralogical Association of Canada
160. Guillot, S., Deschamps, F., Godard, M., Andreani, M., Hattori, K., Schwartz, S., Lafay, R., **2011**. Serpentinites acts as sponges for fluid-mobile elements from abyssal to subduction zone environments. European Geosciences Union. EGU2011-1457.

159. Thompson, A., Ryan, P., Hattori, K., Kim, J., **2011**. Geochemical and sulphur isotope analysis of Taconic slates: Implications for arsenic source and mobility in a bedrock aquifer system. Abstract, Northeastern sec. Geological Society of America v.43, no. 1
158. Boutonnet, E., Leloup, P.H., Arnaud, N., Paquette, J.L., Davis, W.J., Hattori, K. **2011**. New age constraints on the timing of deformation along the right-lateral Karakorum fault (Ladakh). European Geoscience Union EGU 2011-612.

## 2010

157. Hattori, K. and Shukuno, H., **2010**, Oxidation state of primitive mafic melt in western Philippines reflects arc-scale oxidization of sub-arc mantle source. Geological Society of America Mtg., 2010.
156. de Hoog, J.C.M., Jának, M., Vrabec, M., Hattori, K.H., **2010**. Ultramafic cumulates of oceanic mantle affinity in a continental subduction zone: UHP garnet peridotites from Pohorje (Eastern Alps, Slovenia). *International Mineralogical Association Meeting*.
155. Gilg, H.A., Riehl, M.E., Hattori, K., Takahashi, Y., **2010**. Cr-bearing alunite from Milos, Greece. *International Mineralogical Association Mtg.*, Budapest.
154. Niu, L., Hattori, K., Takahashi, Y., Ryan, P., **2010**. Mineralogical characterization of As in serpentinites in northern Vermont, USA. *International Mineralogical Association Mtg.*, Env Min. 60G, Budapest
153. Hattori, K., Takahashi, Y., Auge, T., **2010**. X-ray absorption spectroscopic study of oxygen-bearing platinum-iron grains from New Caledonia. *International Mineralogical Association. Mtg.*, Budapest
152. Mizukami, T., Wallis, S.R., Hattori, K., Enami, M., **2010**. Higashi-akaishi peridotite body from a hanging wall of an oceanic subduction zone at the east Eurasian margin. *Goldschmidt Conference* page A 715.
151. Boutonnet, Emannelle, Leloup, P.H. Davis, W.D, Hattori, K. **2010**. New U/Pb zircon ages demonstrating Karakorum shear zone activity prior to 18 Ma, *European Geoscience Union Meeting*.
150. Wang, J., Hattori, K.H., Xu, W., Xie, Z., Song, Y., **2010**. -Phanerozoic evolution of lithospheric mantle beneath the North China Craton: Evidence from the change of oxidation state. *Western Pacific Geophysics Meeting. American Geophysical Union. (not presented because Wang was not permitted to visit Taiwan)*
149. Wang, J., Xu, W., Hattori, K., Liu, J., **2010**. Origin of High-Mg Dunite xenoliths in Laiwu High-Mg Diorites from Western Shandong: New data of platinum group element. *Western Pacific Geophysics Meeting. American Geophysical Union. (not presented because Wang was not permitted to visit Taiwan)*

## 2009

148. Brauneder, K., Hattori, K.H. & Southam, G., **2009**, Investigation of physical, chemical and microbiological processes in the development of forest rings in Ontario. Extended Abstract, International Applied Geochemistry Symposium.
147. Sader, J.A., Hattori, K., Hamilton, S.M., **2009**, Peat groundwater as a medium for surficial geochemical exploration. Extended Abstract, International Applied Geochemistry Symposium
146. Sader, J.A., Anderson, H.S., II, Fenstermacher, R.F., Hattori, K., **2009**, Imaging buried diamond kimberlites using a soil geochemistry and amplified geochemical imaging<sup>SM</sup> technology. Abstract, International Applied Geochemistry Symposium.
145. Hattori, K., Tubrett, M., Saumur, B.M., Guillot, S. **2009**. Subduction of shallowly formed arc cumulates: Evidence from clinopyroxene compositions of garnet peridotites in the Rio San Juan Complex, northern Dominican Republic. Geophysical Research Abstracts, Vol. 11, EGU2009-6237, 2009
144. Guillot, S., Riel, N., Hattori, K., Rolland, Y., Van Melle, J., Latif, M., Kausar, A.B., Pêcher, A., **2009**, New occurrence of HP to UHP rocks in NW Himalaya: The Stak massif in northern Pakistan., European Geoscience Union Meeting.

### **2008.**

143. Riel, N., Hattori, K., Guillot, S., Latif, M., Kausar, A.B., **2008**. Occurrences of sulphide minerals in the Stak and Tso Moriri eclogites: Implications for the behaviour of sulphur and chalcophile elements in subduction zones. Himalayan Journal of Sciences, Abst. Himalaya-Karakoram-Tibet meeting.
142. Riel, N., Hattori, K., Guillot, S., Rayner, N., Davis, W., Latif, M., Kausar, A.B., **2008**, SHRIMP zircon ages of eclogites in the Stak massif, northern Pakistan. Himalayan Journal of Sciences, Abst. Himalaya-Karakoram Tibet meeting
141. Guillot, S., Riel, S., Hattori, K., Desgreniers, S., Rolland, Y., Van Melle, J., Latif, M., Pêcher, A., **2008**. New occurrence of UHP rocks in NW Himalaya: The Stak massif in northern Pakistan. Himalayan Journal of Sciences, Abst. Himalaya-Karakoram-Tibet meeting
140. Hamilton, S., Hattori, K. and Brauneder, K., **2008**, Redox-induced spontaneous polarization as a cause of large self potential anomalies over disseminated sulphides and other buried features. *KEGS Symposium, Canadian Exploration Geophysical Society meeting in Toronto.*
139. Januszczak, N., Hamilton, S., Hattori, K., **2008**. Advances in soil geochemical exploration methods for areas of glacial cover. *9<sup>th</sup> International Kimberlite Conference.*

### **2007.**

138. Hattori, K., **2007** (Invited key note presentation), Sulphur and copper in magmatic arc: sources and linkages. *American Geophysical Union Meeting.*

137. Hattori, K., Wallis, S., Enami, M., Mizukami, T., **2007**, Subduction of subarc mantle peridotites: Evidence from the Higashi-akaishi garnet peridotites in the Sanbagawa metamorphic belt, Japan. *American Geophysical Union Meeting*. T11C-0734
136. Guillot, S., Gerya, T.V., Gorczyk, W., Hattori, K., Schwartz, S., Saumur, B., Vidal, O., **2007**. Exhumation of HP and UHP Rocks in Oceanic and Continental Subduction Zones. *American Geophysical Union Fall Meeting in SF*.
135. Wang, J., Hattori, K.H., Stern, C.R., **2007**, Formation of garnet orthopyroxenites and mobility of siderophile and chalcophile elements during metasomatism by asthenospheric mantle derived melt in the subcontinental lithospheric mantle in the southern South America. *American Geophysical Union Mtg*. V43B 1371
134. Saumur, B-M., Hattori, K.H. and Guillot, S., **2007**, Geochemistry of serpentinites from the northern subduction complex of Dominican Republic: exhumation of UHP rocks along major strike-slip fault zones. *Subduction Zone Geodynamics Meeting*, Montpellier, June 2007.
133. Deschamps, F., Guillot, S., Godard, M., Hattori, K.H., Saumur, B.M., **2007**, Subduction-related serpentinites: New insights from Microprobe and Laser ICP-MS analyses on serpentine minerals, *Subduction Zone Geodynamics Meeting*, Montpellier, June 2007.
132. Brauneder, K., Hattori, K.H., Hamilton, S., Januszczak, N., **2007**, Geochemical signatures of concealed kimberlites in shallow groundwaters in wetland: Case study in the Attawapiskat area, northern Canada. *International Applied Geochemists Symposium* June, 2007.
131. Guillot, S., Vidal, O., Agard, P., Hattori, K., and Schwartz, S., **2007**, Exhumation of HP to UHP rocks: constraints from petrological studies and numerical modelling, *Subduction Zone Geodynamics Meeting*, Montpellier, June 2007

### 2006.

129. Saumur, B-M., Hattori, K.H., Guillot, S., **2006**, Origin of hydrated peridotites associated with ultra high-pressure eclogites in Hispaniola, northern edge of Caribbean Plate, Geological Association of Canada meeting
128. Wang, J., Hattori, K. and Li, J.P., **2006**, Oxidation state of the upper subcontinental lithospheric mantle underlying the southernmost South America. 2006 Western Pacific Geophysics Meeting in Beijing.

### Short Courses to Industry and Academic Researchers

Hattori, K., Cameron, E.M., **2008**. Geochemical exploration for platinum group metals. Short Course, Exploration for platinum group elements, in conjunction with Prospectors and Developers Association of Canada, Toronto.

### Other non-refereed presentations (past 7 years, students double underlined)

64. Dann, J., Hattori, K., Sorba, C., **2012**. Alteration around the Phoenix uranium deposit, Athabasca Basin, Saskatchewan. Geo-mapping for Energy and Minerals

(GEM) and Targeted Geoscience Initiative (TGI) Uranium Workshop, St John's. Nfld

63. Power, M., Hattori, K., Sorba, C., **2012**. Geochemical anomalies in surface media and uppermost sandstones overlying the concealed Phoenix uranium deposit, Athabasca Basin, Canada. Geo-mapping for Energy and Minerals (GEM) and Targeted Geoscience Initiative (TGI) Uranium Workshop, St John's. Nfld.
62. Power, M., Hattori, K., Sorba, C., **2012**. What do geochemical anomalies in surface media and shallow sandstones overlying the Phoenix uranium deposit, Athabasca Basin, Saskatchewan tell us? Advances in Earth Science Research Conference, Kingston
61. Poulin, Remy, Grice, J., Hattori, K., **2012**. Borate Minerals; veatchite and volkovskite from marine evaporate deposits of New Brunswick. Minerals Colloquium, Toronto.
60. Dann, J., Hattori, K., Sorba, C., **2012**. Alteration minerals along major fault and unconformity around the Phoenix deposit, Athabasca Basin, Saskatchewan. Minerals Colloquium, Toronto.
59. Power, M., Hattori, K., Sorba, C., **2012**. Geochemical in surficial media and the upper sandstones over the Phoenix uranium deposit, Athabasca Basin. Minerals Colloquium.
58. Kelley, C., Hattori, K., **2012**. Cathodoluminescent images and chemical composition of quartz from auriferous veins in the Musselwhite Mine, northern Ontario. Minerals Colloquium
57. Power, M., Hattori, K., Sorba, C., **2011**. Surficial geochemical anomalies over the Phoenix uranium deposit. Saskatchewan Geological Survey Open House, Saskatoon.
56. Dann, J., Hattori, K., Sorba, C., **2011**. Alteration associated with the Phoenix uranium deposit: A geochemical and mineralogical study. Saskatchewan Geological Survey Open House, Saskatoon.
55. Hattori, K., **2011**. Volume of serpentinites in forearc mantle and recycling of volatiles. *Workshop, Nature of the Plate Interface in Subduction Zones*, Torinette, Italy.
54. Hattori, K., Jung, Haemyeong, de Hoog, C.J., Guillot, S., **2011**. Water and trace-element concentrations of secondary olivine in the Voltri Complex, Italy, and Himalayas. *Workshop, Nature of the Plate Interface in Subduction Zones*, Torinette, Italy.
53. de Hoog, C.J., Janak, M., Hattori, K.H., **2011**. Ultramafic cumulates of oceanic affinity in intracontinental subduction zone: UHP garnet peridotites from Pohorje, eastern Alps. Intern. Lithosphere Program Mtg. *Plate Interface in Subduction Zones*.
52. Hattori, K., Jung, H., de Hoog, C-J., Guillot, S., **2011**. Water and trace-element concentrations of secondary olivine in the Voltri Complex, Italy, and Himalayas. Intern. Lithosphere Program Mtg., *Plate Interface In Subduction Zones*.

51. Duff, J., Hattori, K., Schneider, D., **2011**. Petrogenesis of volcanic rocks in the Archean North Caribou greenstone belt. Advances in Earth Science Research Conference
50. Stern, F., Hattori, K., Bedard, J., **2011**. The origin of ultramafic complex in the Blow-me-down massif in the western Newfoundland, Canada. Advances in Earth Science Research Conference.
49. Van Lankvelt, A., Schneider, D., Hattori, K., **2011**. External Granitoids of the Mesoarchean North Caribou Terrane. Advances in Earth Science Research Conference.
48. Stern, F., Hattori, K., Bedard, J. **2011**. Distribution of platinum group elements in the mantle-crust boundary: evidence from the Bay of Island Ophiolite, Newfoundland. Ottawa-Carleton Geoscience Centre-Geological Survey of Canada, Mineral Colloquium.
47. Cossette, E., Kalbfleisch, T., Schneider, D., Hattori, K., Jackson, S., Biczok, J., **2011**. Deformation, metamorphism, and auriferous hydrothermal activity in the North Caribou greenstone belt. Ottawa-Carleton Geoscience Centre-Geological Survey of Canada, Mineral Colloquium.
46. Sader, Jamil and Hattori, K., **2010**. Finding the geochemical evidence for buried kimberlite in wetland: Case study in the James Bay Lowlands, Canada. Advances in Earth Science Research Conference.
45. Saumur, B. and Hattori, K., **2010**. Zoned Cr spinel and “ferritchromit” alteration in forearc serpentinites from northern Dominican Republic. Advances in Earth Science Research Conference.
44. Thompson, Alex. Hattori, K., Smith, S., **2010**. Mineralogy of “silica rocks” in the Yanacocha mine, Peru: Possible origin of large SP anomalies. Ottawa-Carleton Geoscience Centre-Geological Survey of Canada, Mineral Colloquium.
43. Sader, J., Hattori, K., Hamilton, S., **2010**. Kimberlite geochemical pathfinders in shallow groundwaters over buried kimberlites in James Bay Lowlands, Ontario, Canada. Ottawa-Carleton Geoscience Centre-Geological Survey of Canada, Mineral Colloquium.
42. Brauneder, K., Hamilton, S.M. Hattori, K.H., Southam, G. **2009**. Origin of forest ring related biological gas. Advances in Earth Sciences Research Conference.
41. Brauneder, K., Hamilton, S.M. and Hattori, K.H., **2008**. Origin of forest ring related biogas deposits of northern Ontario. Ontario Geoscience Forum in Sudbury.
40. Brauneder, K., Hamilton, S.M. and Hattori, K.H., **2008**. Forest ring related methane: distribution, origin and implications for exploration of shallow methane deposits in boreal forest. Society of Exploration Geophysicists. Unconventional Resources Research Meeting in Vancouver.

39. Sader, J., Hattori, K.H., and Hamilton, S., **2008**, Kimberlite exploration in Northeastern Ontario. Northeastern Ontario Mines and Minerals Symposium. Timmins, April 15, 2008.
38. Hattori, K., Hamilton, S., **2007**, Characteristics of soil and peat overlying concealed kimberlites in the Attawapiskat area, northern Ontario. Ontario Geoscience Forum and Ontario Prospectors Symposium.
37. Brauneder, K., Hattori, K. and Hamilton, S., **2007**. Peatland waters overlying concealed kimberlites in the Attawapiskat region, northern Ontario. Ontario Geoscience Forum and Ontario Prospectors Symposium.
36. Hattori, K.H., Guillot, S., **2007** (Invited presentation), Geochemistry of serpentinites from continental and oceanic subduction zones. Serpentinites Workshop at the University of Grenoble, France.
35. Guillot, S., Hattori, K.H., Gorczyk, W., Deschamps, F., Saumur, B., Schwartz, S., Gerya, T., Vidal, O. **2007**, Les serpentinites dans les zones de subduction. Serpentinites Workshop at the University of Grenoble.
34. Saumure, B-M. Hattori, K.H., Guillot, S., Desgreniers, S., **2007**, :L'ascension de serpentinites du prisme mantellique le long de failles transformantes dans un complexe de subduction oceanique a Dominican Republic. Serpentine Workshop at the University of Grenoble. Serpentine Workshop at the University of Grenoble.
33. Saumure, B-M. Hattori, K.H. and Guillot, S., **2007**, Geochemistry of serpentinites from the northern subduction complex of Dominican Republic: exhumation of UHP rocks along major strike-slip fault zones. Advanced Earth Sciences Research Conference, Ottawa
32. Wang, Jian and Hattori, K.H., **2007**, Garnet orthopyroxenite, a product of asthenospheric melt infiltration in the subcontinental lithospheric mantle underlying the southernmost South America, Advanced Earth Sciences Research Conference, Ottawa