

Refereed journal articles:

44. *FRIEMAN, B.M., KUIPER, Y.D., KELLY, N.M., **MONECKE, T.**, KYLANDER-CLARK, A. (2017) Constraints on the geodynamic evolution of the southern Superior Province: U-Pb LA-ICP-MS analysis of detrital zircon in successor basins of the Archean Abitibi and Pontiac subprovinces of Ontario and Quebec, Canada: *Precambrian Research*, v. 292, p. 398-416.
43. *ANDERSON, E.D., **MONECKE, T.**, HITZMAN, M.W., ZHOU, W., BEDROSIAN, P.A. (2017) Mineral potential mapping in an accreted island-arc setting using aeromagnetic data: An example from southwest Alaska. *Economic Geology*, v. 112, p. 375-396.
42. **MONECKE, T.**, PETERSEN, S., HANNINGTON, M.D., GRANT, H., SAMSON, I. (2016) The minor element endowment of modern sea-floor massive sulfides and comparison with deposits hosted in ancient volcanic successions. *Reviews in Economic Geology*, v. 18, p. 245-306.
41. *HOLLEY, E.A., BISSIG, T., **MONECKE, T.** (2016) The Veladero high-sulfidation epithermal gold deposit, El Indio-Pascua belt, Argentina: Geochronology of alunite and jarosite. *Economic Geology*, v. 111, p. 311-330.
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34. MCNICOLL, V., GOUTIER, J., DUBÉ, B., MERCIER-LANGEVIN, P., ROSS, P.S., DION, C., **MONECKE, T.**, LEGAULT, M., PERCIVAL, J., GIBSON, H. (2014) New U-Pb geochronology from the Blake River Group, Abitibi greenstone belt, Quebec, and implications for base metal exploration. *Economic Geology*, v. 109, p. 27-59.
33. MERCIER-LANGEVIN, P., GIBSON, H.L., HANNINGTON, M.D., GOUTIER, J., **MONECKE, T.**, DUBÉ, B., HOULE, M.G. (2014) A special issue on Archean magmatism, volcanism and ore Deposits: Part 2. Volcanogenic massive sulfide deposits – Preface. *Economic Geology*, v. 109, p. 1-9.
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† First author died prior to publication. Manuscript was written by Thomas Monecke.

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36. DE KEMP, E.A., GOUTIER, J., MCNICOLL, V., LEGAULT, M., RABEAU, O., **MONECKE, T.**, FALLARA, F., PERCIVAL, J., CHENG, L.Z. (2008) Regional scale 3-D structural and stratigraphic modelling of the Archean Blake River Group, Noranda, Québec. Abstract volume of the Québec 2008 GAC-MAC-SEG-SGA joint meeting. Québec 26-28 May 2008: 41-42.
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34. MERCIER-LANGEVIN, P., GOUTIER, J., MCNICOLL, V., DUBÉ, B., **MONECKE, T.**, CARRIER, A., HANNINGTON, M., GIBSON, H., AND BÉCU, V. (2008) VMS deposits in Abitibi - A perspective (review) from Quebec. Proceedings and Abstracts. Northeastern Ontario Mines and Minerals Symposium 2008. Timmins 14-16 April 2008. 45-47.
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32. MCNICOLL, V., VAN BREEMEN, O., DUBÉ, B., GOUTIER, J., MERCIER-LANGEVIN, P., DION, C., ROSS, P.S., **MONECKE, T.**, PERCIVAL, J., THURSTON, P., LEGAULT, M., GIBSON, H., AYER, J., BLEEKER, W., BERGER, B., PILOTE, P., BEDARD, J., LECLERC, F., RHEAUME, P. (2007) New U-Pb geochronology from the TGI-3 Abitibi/Copper Plan project: implications for geological interpretations and base metal exploration. Abstracts of oral presentations and posters. Québec Exploration 2007. Québec 26-29 November 2007. Ministère des Ressources naturelles et de la Faune (Québec). Report DV 2007-05: 14.
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 4. **MONECKE, T.**, GEMMELL, B., HERZIG, P. (1999) Fractal analysis of hanging wall vein thickness distributions in the Waterloo deposit, Australia. Supplement to the European Journal of Mineralogy 11: 160.
 3. **MONECKE, T.**, MONECKE, J., MÖNCH, W., KEMPE, U. (1998) Mathematical analysis of rare earth element patterns of fluorites from the tin deposit Ehrenfriedersdorf, Germany. Terra Nostra 98/3: P125-126.
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 1. **MONECKE, T.**, KEMPE, U., GÖTZE, J., BOMBACH, G., HERZIG, P., WOLF, D., KLEMM, W. (1997) Genetic significance of the trace element content in quartz from hydrothermal ore deposits. Supplement to the European Journal of Mineralogy 9: 255.

* Abstract prepared by one of my students

Short courses:

7. World-class gold deposits: How do they form and what do we need to know to find them? PDAC 2017 International Convention, Trade Show and Investors Exchange. Toronto, Canada (March 3-4, 2017). Short course held together with Richard Goldfarb and Stuart Simmons.
6. Volcanogenic massive sulfide deposits. Short course held at the University of Medellin, Columbia (November 3, 2016).
5. Volcanogenic massive sulfide deposits. Short course held at the Geological Society of Peru, Lima, Peru (August 12, 2016).
4. Gold-rich massive sulfide deposits. Mineral Exploration Round-up Annual Meeting, Vancouver, Canada (January 26-29, 2015). Short course held together with F. Tornos, J. Dilles, D. Leach, R. Shaw.
3. Minerals Deposits and their Exploration Criteria. Society of Economic Geologists Short Course held in association with the 14th Quadrennial International Association on the Genesis of Ore Deposits Symposium, Kunming, China (19-22 August 2014). Short course held together with David Cook, Jeff Hedenquist, David Lentz, Zhou Meifu, L. Meinert, R. Goldfarb.
2. Introduction to the physics and chemistry of hydrothermal ore deposits. University of Ottawa (February 16-23, 2013). Short course held together with M.D. Hannington, S. Ingebritsen, I. Samson, and D. Kontak.
1. Metallogeny of modern and ancient submarine arc systems. Society of Economic Geologists, Littleton, Colorado (April 26-27, 2012). Short course held together with M.D. Hannington.

Talks at scientific conferences:

26. Exploration guidelines for VMS deposits. PDAC 2017 International Convention, Trade Show and Investors Exchange. Toronto, Canada (5-8 March, 2017). **[Invited Talk]**
25. Integrated cathodoluminescence and fluid inclusion studies on vein quartz: Unraveling the evolution of magmatic-hydrothermal systems forming porphyry copper deposits. GSA Annual Meeting. Denver, Colorado (25-28 September 2016).
24. Gold in the massive sulfide environment: A comparison of ancient and modern seafloor hydrothermal systems. 14th Quadrennial International Association on the Genesis of Ore Deposits Symposium, Kunming, China (19-22 August 2014). **[Invited Keynote]**
23. Hydrothermal alteration of Porcupine assemblage sedimentary rocks at the Hoyle Pond orogenic gold deposit, Timmins, Ontario. 34th International Geological Congress (IGC): Australia 2012. Brisbane, Queensland (August 5-10, 2012).
22. Occurrence of multiple quartz generations in veins from the Far Southeast porphyry Cu-Au deposit, Philippines: implications for the interpretation of fluid inclusion assemblages. 34th International Geological Congress (IGC): Australia 2012. Brisbane, Queensland (August 5-10, 2012).
21. Volcanology of the giant Horne massive sulfide deposit, Rouyn-Noranda, Quebec. 34th International Geological Congress (IGC): Australia 2012. Brisbane, Queensland (August 5-10, 2012). **[Invited Keynote]**

20. The Jurassic Eskay Creek deposit, northwestern British Columbia: Mineralogical and geochemical indicators of proximity in carbonaceous mudstone. AME BC Mineral Exploration RoundUp 2012. Vancouver, BC (January 23-26, 2012). **[Invited Keynote]**
19. Water depth of massive sulfide formation: Evidence from modern seafloor hydrothermal systems. GAC-MAC Joint Annual Meeting. Ottawa, Ontario (May 25-27, 2011).
18. Geology of the Horne massive sulfide deposit, Rouyn-Noranda, Quebec. GAC-MAC Joint Annual Meeting. Ottawa, Ontario (May 25-27, 2011).
17. Anatomy of the highly metamorphosed Izok Lake VHMS deposit, Nunavut Territory. GAC-MAC Joint Annual Meeting. Ottawa, Ontario (May 25-27, 2011).
16. Eruption craters associated with shallow submarine gas venting off Panarea Island, Italy. GSA Annual Meeting. Denver (October 31 - November 03, 2010).
15. Geology of the giant Horne massive sulfide deposit, Rouyn-Noranda. Congrès Abitibi 2009. Rouyn-Noranda (September 29, 2009). **[Invited Keynote]**
14. Explosion craters associated with shallow marine gas venting at Panarea, Aeolian Islands, Italy. GAC-MAC-SEG-SGA joint meeting, Québec (May 28, 2008).
13. Shallow marine sulfide mineralization in the southeastern Tyrrhenian Sea, Italy. GAC-MAC-SEG-SGA joint meeting, Québec (May 28, 2008).
12. Geology and volcanic setting of the giant Horne deposit, Rouyn-Noranda, Quebec. GAC-MAC-SEG-SGA joint meeting, Québec (May 27, 2008).
11. Volcanological and stratigraphic setting of the giant Horne deposit, Rouyn-Noranda: Implications for exploration. Exploration et Géosciences Abitibi 2007, 5e forum technologique du CONSOREM, Rouyn-Noranda (September 19, 2007).
10. Unraveling mineral isotope signatures from whole-rock oxygen and hydrogen isotope data: A case study. 8th biennial SGA meeting, Beijing (August 18-21, 2005).
9. Low-temperature hydrothermal alteration at Conical Seamount, Papua New Guinea. GAC-MAC-CSPG-CSSS joint meeting, Halifax (May 15-18, 2005).
8. Mineralogical investigations on the hydrothermally altered wall rocks of the shallow marine gold mineralization at Conical Seamount, Papua New Guinea (in German). Status seminar marine research with R/V Sonne, Warnemünde (March 09-11, 2005).
7. Volcanic facies architecture of the Waterloo VHMS deposit, Australia. 7th biennial SGA meeting, Athens (August 24-28, 2003).
6. Shallow submarine gold mineralization at the Conical Seamount, Papua New Guinea: Initial results of an alteration halo study. 7th biennial SGA meeting, Athens (August 24-28, 2003).
5. Relationship between volcanism and hydrothermal alteration at the Waterloo VHMS deposit, Australia. 79th annual meeting of the DMG, Potsdam (September 09-14, 2001).
4. Crystal chemistry of muscovite: An indicator of proximity to VHMS mineralisation. Joint 6th biennial SGA-SEG meeting, Krakow (August 26-29, 2001).
3. Trace element characteristics of quartz from the TAG hydrothermal mound. 5th biennial SGA meeting and the 10th quadrennial IAGOD symposium, London (August 22-25, 1999).
2. Trace elements in scheelite and quartz from the Muruntau/Myutenbai gold deposit (Uzbekistan): Constraints on the nature of the ore-forming fluids. 5th biennial SGA meeting and the 10th quadrennial IAGOD symposium, London (August 22-25, 1999).
1. Genetic significance of the trace element content in quartz from hydrothermal ore deposits. 75th annual meeting of the DMG, Köln (September 15-19, 1997).

Other talks:

62. Cathodoluminescence microscopy in geosciences. Guest lecture in GEOL523. Colorado School of Mines, Golden, Colorado (April 10, 2017).
61. Rare-earth resources. Visit of representatives of the National Defense University/Eisenhower School Strategic Materials Industry Study Group. Colorado School of Mines, Golden, Colorado (February 23, 2017).
60. Roll-front uranium deposits. Guest lecture in GEOL310. Colorado School of Mines, Golden, Colorado (November 14, 2016).
59. Volcanogenic massive sulfide deposits: Case Studies. Guest lecture in GEGN401. Colorado School of Mines, Golden, Colorado (October 28, 2016).
58. Volcanogenic massive sulfide deposits. Guest lecture in GEGN401. Colorado School of Mines, Golden, Colorado (October 26, 2016).
57. Volcanogenic massive sulfide deposits. Guest lecture in GEOL310. Colorado School of Mines, Golden, Colorado (October 24, 2016).
56. Roll-front uranium deposits. Guest lecture in GEGN401. Colorado School of Mines, Golden, Colorado (October 24, 2016).
55. Metallogeny of Modern and Ancient Submarine Volcanic Arcs. Geological Society of Peru, Lima, Peru (12 August 2016).
54. Volcanogenic massive sulfide deposits. Geology team of the Cerro Lindo deposit, Peru (09 August 2016).
53. Research capabilities in economic geology at Colorado School of Mines. Argus Americas Rare Earth Summit Denver (June 16, 2016).
52. Rare-earth resources. Visit of representatives of the Industrial College of the Armed Forces. Colorado School of Mines, Golden, Colorado (April 25, 2016).
51. Shallow Marine Hydrothermal Systems in Volcanic Arcs. Denver Regional Exploration Geologists' Society, Golden (March 9, 2015).
50. Jobs in Economic Geology. Guest lecture in GEGN203. Colorado School of Mines, Golden, Colorado (November 24, 2014).
49. Volcanic-hosted massive sulfide deposits. Guest lecture in GEGN401. Colorado School of Mines, Golden, Colorado (October 24, 2014).
48. Cathodoluminescence microscopy in geosciences. Guest lecture in GEOL523. Colorado School of Mines, Golden, Colorado (November 4, 2014).
47. Economic Geology Program at Colorado School of Mines. Meeting with Representatives of FQM. Colorado School of Mines (September 26, 2014).
46. Cathodoluminescence microscopy in geosciences. Guest lecture in GEOL621. Colorado School of Mines, Golden, Colorado (March 26, 2014).
45. Gold in the massive sulfide environment: A comparison of ancient and modern seafloor hydrothermal systems. L'Institut Canadien des Mines de la Métallurgie et du Pétrole, Rouyn-Noranda, Quebec, Canada (May 22, 2013).
44. Cathodoluminescence microscopy in geosciences. Guest Lecture in GEOL621. Colorado School of Mines, Golden, Colorado (March 27, 2013).
43. Review of a research project with UR Energy. Littleton, Colorado (February 15, 2013).
42. Fluid-fluid interaction in magmatic-hydrothermal systems: A new look at the porphyry-epithermal transition. Colorado School of Mines Society of Economic Geologists Student Chapter, Golden (November 15, 2012).
41. Cathodoluminescence and fluid inclusion characteristics of hydrothermal quartz as a vector to metal mineralization. Review of a research project with Newmont. Denver, Colorado (September 13, 2012).
40. Development of new mineralogical and geochemical vectors of proximity to roll-front mineralization. Review of a research project with UR Energy. Casper, Wyoming (May 29, 2012).

39. The Economic Geology Program at Colorado School of Mines. Mining Education for the 21st Century. Colorado School of Mines, Golden, Colorado (May 3, 2012).
38. Rare earth element deposits. Visit of representatives of the Industrial College of the Armed Forces. Colorado School of Mines, Golden, Colorado (March 22, 2012).
37. Cathodoluminescence and fluid inclusion characteristics of hydrothermal quartz as a vector to metal mineralization. Review of a research project with Newmont. Colorado School of Mines, Golden, Colorado (March 9, 2012).
36. CAMIRO Project08E04: Review of Subprojects at Colorado School of Mines. Toronto, Ontario (March 4, 2012).
35. Massive sulfide formation at the modern seafloor. Department of Geological Sciences, CU Boulder, Colorado (March 1, 2012).
34. Ancient massive sulfide deposits. Department of Geological Sciences, CU Boulder, Colorado (February 28, 2012).
33. Cathodoluminescence and fluid inclusion characteristics of hydrothermal quartz as a vector to metal mineralization. Review of a research project with Newmont. Denver, Colorado (January 10, 2011).
32. Geological, technical, and legal aspects of seafloor massive sulfide exploration. American Institute of Professional Geologists, Denver (November 16, 2010).
31. Volcanological controls on the location of massive sulfide deposits. L'Institut Canadien des Mines de la Métallurgie et du Pétrole, Rouyn-Noranda, Quebec, Canada (May 27, 2010).
30. Geological constraints on the supply of the rare earth elements. Visit of representatives of the Industrial College of the Armed Forces, Colorado School of Mines (March 25, 2010).
29. Geology of the giant Horne massive sulfide deposit, Rouyn-Noranda. Congrès Abitibi 2009, Rouyn-Noranda, Quebec (September 28, 2009).
28. Strategic importance of the rare earth elements. Visit of representatives of the Industrial College of the Armed Forces, Colorado School of Mines (February 26, 2009).
27. The tetrad effect in rare earth element distribution patterns. Department of Chemistry and Geochemistry, Colorado School of Mines (February 17, 2009).
26. Geological, technical, and legal aspects of seafloor massive sulfide exploration. Denver Regional Exploration Geologists' Society, Golden (February 2, 2009).
25. Fluid-mineral interaction: Witness and ruler of seafloor hydrothermal processes. Van Tuyl lecture, Colorado School of Mines, Golden (September 11, 2008).
24. Shallow marine massive sulfide deposits: A new exploration target. Colorado School of Mines, Golden (July 15, 2008).
23. Geology and stratigraphical setting of the giant Cu-Au Horne and Quemont deposits, Rouyn-Noranda. Geological Survey of Canada, Ottawa (March 27, 2008).
22. Fluid-mineral interaction: Witness and ruler of seafloor hydrothermal processes. Geological Survey of Canada, Ottawa (December 07, 2007).
21. Shallow marine massive sulfide deposits: The role of magmatic fluids (in German). TU Bergakademie Freiberg, Germany (May 14, 2007).
20. Geology and stratigraphical setting of the giant Cu-Au Horne and Quemont deposits, Rouyn-Noranda. Geological Survey of Canada, Ottawa (March 27, 2007).
19. Fluid-mineral interaction: Witness and ruler of large-scale crustal fluid flow. University of Ottawa (March 09, 2007).
18. Fluid-mineral interaction: Witness and ruler of seafloor hydrothermal processes. Christian Albrechts University Kiel, Germany (February 12, 2007).
17. Shallow marine massive sulfide deposits: The role of magmatic fluids. Leibniz Institute of Marine Sciences, IFM-GEOMAR, Kiel, Germany (January 30, 2007).

16. Fluid-mineral interaction: Witness and ruler of crustal fluid flow. University of New Brunswick, Fredericton (January 23, 2007).
15. Hydrothermal alteration of volcanic rocks: Witness and ruler of seafloor hydrothermal processes. University of British Columbia, Vancouver (January 11, 2007).
14. Geology and volcanology of the West Zone Deposit, Noranda. Commission géologique du Canada, Québec (November 14, 2006).
13. Hydrothermal alteration of volcanic rocks: Reconstruction of ore-forming processes (in German). Ernst Moritz Arndt University Greifswald, Germany (June 19, 2006).
12. Hydrothermal alteration of volcanic rocks: Reconstruction of ore-forming processes. Saint Mary's University Halifax (May 26, 2006).
11. Hydrothermal alteration of volcanic rocks: Reconstruction and simulation of ore-forming processes (in German). RWTH Aachen, Germany (May 17, 2006)
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