

LAKEHEAD UNIVERSITY

CURRICULUM VITAE

DATE: January 1, 2018

NAME: Peter Hollings

DEPARTMENT OR SCHOOL: Geology Department

PRESENT RANK: Professor

TENURED (Yes/No): Yes

DATE OF APPOINTMENT TO L.U.: August 1, 2001

1. **ACADEMIC & PROFESSIONAL QUALIFICATIONS.** (Please include Thesis titles, if any.)

Degree or Professional Acronym	University or Institution	Year
Ph.D.	University of Saskatchewan <i>Thesis title – Geochemistry of the Uchi Subprovince</i>	1998
B.Sc. (Hons) Geology	Royal Holloway and Bedford New College, University of London <i>Thesis title - A geochemical study of a suite of rocks from the islands of Petit Martinique and Carriacou, Lesser Antilles</i>	1992

2. **CHRONOLOGICAL ACCOUNT OF CAREER, GIVING DATES OF APPOINTMENTS, DEGREES, AND EXPERIENCE.**

2016 - 2017 **Interim Dean**, Faculty of Science and Environmental Studies
(September 1 to February 28, 2017)

2013 – present **Director**, Centre of Excellence for Sustainable Mining and Exploration

2009 – present **Professor**, Lakehead University

2005 – 2009 **Associate Professor**, Lakehead University

2001 - 2005 **Assistant Professor**, Lakehead University

1999 - 2001 **NSERC Postdoctoral Fellowship**, CODES, University of Tasmania

1998 - 1999 **Postdoctoral Fellow**, University of Saskatchewan,

1994 - 1998 **Ph.D.**, University of Saskatchewan.

1992 - 1994 **Postgraduate Research Assistant**, University of London, England

1989 - 1992 **HBS**Sc. in Geology (First Class), University of London, UK

3. AWARDS

2017: I received the Howard Street Robinson Medal from the Geological Association of Canada

2016: I was named the Lakehead University Research Chair in the NSERC/CHIR category

2015: I was named the NSERC Distinguished Researcher for Lakehead University.

2014: Part of the research team that won the Measurement in Action category of the Institution of Engineering and Technology (IET) Innovation Awards. The award was presented to the University of Tasmania, Imperial College London, Natural History Museum, Lakehead University and AMIRA International for their development of laser ablation analysis for enhanced discovery of mineral resources.

2012: Part of the research team that won the inaugural AMIRA Award for Geoscience Research Excellence for research into “Geochemical vectors as used in exploration for porphyry-related mineralization”.

2008: Awarded the William Harvey Gross Medal by the Mineral Deposit Division of the Geological Association of Canada. This award is given to a geoscientist under age 40 who has made a significant contribution to the field of economic geology.

2004: Co-authors and I were awarded the Julian Boldy Award by the Mineral Deposits Division of the Geological Association of Canada, at the GAC-MAC meeting in May 2004, for the paper “The characteristics, distribution and controls of giant porphyry copper deposits”.

4. PUBLICATIONS

Life-time summary:

Papers in Refereed Journals	112
Book Chapters.....	12
Reports	194
Papers in Refereed Conference Proceedings.	127
Abstracts in Refereed Conference Proceedings.....	85

A. Refereed papers in international journals (112, 23 first author)

Zhang, Y., **Hollings, P.**, Shao, Y., Li, D., Chen, H. and Li., H., 2020. Magnetite texture and trace-element geochemistry fingerprint of pulsed mineralization in the Xinqiao Cu–Fe–Au deposit, Eastern China. American Mineralogist, in press, DOI: 10.2138/am-2020-7414.

- Sun, X., **Hollings, P.**, Lu, Y., 2020. Geology and origin of the Zhunuo porphyry copper deposit, Gangdese belt, southern Tibet. *Mineralium Deposita*, in press <https://doi.org/10.1007/s00126-020-00970-0>.
- Li, D., Fu, Y., Liu, Q., Reinfelder, J., **Hollings, P.**, Sun, X., Tan, C., Dong, Y., and Ma, W., 2020. High-resolution LA-ICP-MS mapping of deep-sea polymetallic micronodules and its implications on element mobility. *Gondwana Research*, 81, 461-474.
- Steadman, J., Large, R., Blamey, N., Mukherjee, I., Corkrey, R., Danyushevsky, L., Maslennikov, V., **Hollings, P.**, Garven, G., Brand, U. and Lécuyer, C., 2020. Evidence for Elevated and Variable Atmospheric Oxygen in the Precambrian. *Precambrian Research*, 343, 105722, <https://doi.org/10.1016/j.precamres.2020.105722>.
- Xiao, B., Chen, H., **Hollings, P.**, Zhang, Y., Feng, Y. and Chen, X., 2020. Chlorite alteration in porphyry Cu systems: New insights from mineralogy and mineral chemistry. *Applied Clay Sciences*, 190, 1055585, <https://doi.org/10.1016/j.clay.2020.105585>.
- Lee, R., Byrne, K., D'Angelo, M., Hart, C., **Hollings, P.**, Gleeson, S., Alfaro, M., 2020. Using zircon trace element composition to assess porphyry copper potential of the Guichon Creek batholith and Highland Valley Copper deposit, south-central British Columbia. *Mineralium Deposita*, in press, <https://doi.org/10.1007/s00126-020-00961-1>
- Yang, W.-B., Niu, H.-C., Li, N.-B., **Hollings, P.**, Zurevinski, S., & Xing, C.-M., 2020. Enrichment of REE and HFSE during the magmatic-hydrothermal evolution of the Baierzhe alkaline granite, NE China: Implications for rare metal mineralization. *Lithos*, 358-359, 105411. doi:10.1016/j.lithos.2020.105411.
- Cao, M., **Hollings, P.**, Evans, N., Cooke, D.R., McInnes, B., Zhao, D., Qin, Z., Li, D., Sweet, G., 2020. In Situ Elemental and Sr Isotope Characteristics of Magmatic to Hydrothermal Minerals from the Black Mountain Porphyry Deposit, Baguio District, Philippines. *Economic Geology*, in press.
- Nathwani, C., Loader, M., Wilkinson, J., Buret, Y., Sievwright, R., **Hollings, P.**, 2020. Multi-stage arc magma evolution recorded by apatite in volcanic rocks. *Geology*, in press. DOI:10.1130/G46998.1
- Cooke, D.R., Agnew, P., **Hollings, P.**, Baker, M., Chang, Z., Wilkinson, J.J., Ahmed, A., White, N.C., Zhang, L., Thompson, J., Gemmell, J.B., and Chen, H., 2020. Recent advances in the application of mineral chemistry to exploration for porphyry copper–gold–molybdenum deposits: detecting the geochemical fingerprints and footprints of hypogene mineralization and alteration. *Geochemistry: Exploration, Environment, Analysis*, in press.
- Li, D., **Hollings, P.**, Chen, H., Sun, X., Tan, C., Zurevinski, S., 2020. Zircon U-Pb and Lu-Hf systematics of the major terranes of the Western Superior Craton, Canada: Mantle-crust interaction and mechanism(s) of craton formation. *Gondwana Research*, 78, 261-277.
- Zhao, L., Chen, H., **Hollings, P.**, Han, J., 2019. Tectonic transition in the Aqishan-Yamansu belt, Eastern Tianshan: Constraints from the geochronology and geochemistry of Carboniferous and Triassic igneous rocks. *Lithos*, 344–345, 247–264, <https://doi.org/10.1016/j.lithos.2019.06.023>.
- Zhang, Y., Tian, J., **Hollings, P.**, Gong, L., Alburo, I., Berador, A., Francisco, D., Li, J., and Chen, H., 2019. Mesozoic porphyry Cu–Au mineralization and associated adakite-like magmatism in the Philippines: insights from the giant Atlas deposit. *Mineralium Deposita*, <https://doi.org/10.1007/s00126-019-00907-2>.
- Li, X., Fan, H., Santosh, M., Yang, K., Peng, H., **Hollings, P.**, Hua, F., 2019. Mesozoic felsic dikes in the Jiaobei Terrane, southeastern North China Craton: Constraints from zircon geochronology and geochemistry, and implications for gold metallogeny. *Journal of Geochemical Exploration*, 201, 40–55.
- Han, J., Chen, H., **Hollings, P.**, Jiang, H., Xu, H., Zhang, L., Xiao, B., Xing, C., Tan, Z., 2019. The formation of modified zircons in F-rich highly-evolved granites: An example from the Shuangji granites in Eastern Tianshan, China. *Lithos*, 324–325, 776–788.
- Cao, M., Evans, N., Reddy, S., Fougereuse, D., **Hollings, P.**, Saxey, D., McInnes, B., Cooke, D.R., McDonald, B., Qin, K., 2019. Micro- and nano-scale textural and compositional zonation in plagioclase at the Black Mountain porphyry Cu deposit: Implications for magmatic processes. *American Mineralogist*, 104, 391–402.
- Li, X., Fan, H., Hu, F., **Hollings, P.**, Yang, K. and Liu, X., 2019. Linking lithospheric thinning and magmatic evolution of late Jurassic to early Cretaceous granitoids in the Jiaobei Terrane, southeastern North China Craton. *Lithos*, 324–325, 280–296.

- Zhao, L., Chen, H., **Hollings, P.**, Han, J., 2019. Late Paleozoic magmatism and metallogenesis in the Aqishan-Yamansu belt, Eastern Tianshan: Constraints from the Bailingshan intrusive complex. *Gondwana Research*, 65, 68–85.
- Xiao, B., Chen, H., **Hollings, P.**, Wang, Y., Yang, J., and Wang, F., 2018. Element transport and enrichment during propylitic alteration in Paleozoic Cu mineralization systems; Insights from chlorite chemistry. *Ore Geology Reviews*, 102, 437–448.
- Li, X., Fan, H., Yang, K., **Hollings, P.**, Liu, X., Hu, F., and Cai, Y., 2018. Pyrite textures and compositions from the Zhuangzi Au deposit, southeastern North China Craton: implication for ore-forming processes. *Contributions to Mineralogy and Petrology*, 173:73. <https://doi.org/10.1007/s00410-018-1501-2>.
- Li, D.F., Chen, H.Y., **Hollings, P.**, Zhang, L., Sun, X.M., Lu, W.J., Wang, C.M., Fang, J., 2018. Isotopic footprints of the giant Precambrian Caixiashan Zn-Pb mineralization system. *Precambrian Research* 305: 79-90.
- Cao, M., Evans, N., **Hollings, P.**, Cooke, D.R., McInnes, B., Qin, K., Li, G., 2018. Phenocryst zonation in porphyry-related rocks of the Baguio District, Philippines: Evidence for magmatic and metallogenic processes. *Journal of Petrology*, 59, 825–848.
- Han, J., Chu, G., Chen, H., **Hollings, P.**, Sun, S and Chen, M., 2018. Hydrothermal alteration and short wavelength infrared (SWIR) characteristics of the Tongshankou porphyry-skarn Cu-Mo deposit, Yangtze craton, Eastern China. *Ore Geology Reviews*, 101, 143–164.
- Fu, Y., Sun, X., **Hollings, P.**, Li, D., Yang, T., 2018. Geochronology and trace element geochemistry of titanite in the Machangqing Cu-Mo-dominated polymetallic deposit, Yunnan Province, southwest China. *Journal of Asian Earth Sciences*, 158, 398–414.
- Ren, Z., Zhou, T., **Hollings, P.** and White, N., 2018. Magmatism in the Shapinggou district of the Dabie orogen, China: Implications for the formation of porphyry Mo deposits in a collisional orogenic belt. *Lithos*, 308–309, 346–363.
- Ren, Z., Zhou, T., **Hollings, P.**, White, N., Wang, F., and Yuan, F., 2018. Trace elements geochemistry of molybdenite from the Shapinggou super-giant porphyry Mo deposit, China. *Ore Geology Reviews*, 95, 1049–1065. Doi: j.oregeorev.2018.02.011.
- Hollings, P.**, Baker, M., Orovan, E., and Rinne, M., 2018. A Special Issue Devoted to Porphyry and Epithermal Deposits of the Southwest Pacific: An introduction. *Economic Geology*, 113, 1–6.
- Cao, M., **Hollings, P.**, Cooke, D.R., Evans, N., McInnes, B., Qin, K., Li, G., Sweet, G., Baker, M., 2018. Physicochemical Processes in the Magma Chamber under the Black Mountain Porphyry Cu-Au Deposit, Philippines: Insights from Mineral Chemistry and Implications for Mineralization. *Economic Geology*, 113, 63–82.
- Deng, Y., Song, X., **Hollings, P.**, Chen, L., Zhou, T., Yuan, F., Xie, W., Zhang, D., and Zhao, B., 2017. Lithological and geochemical constraints on the magma conduit systems of the Huangshan Ni-Cu sulfide deposit, NW China. *Mineralium Deposita*, 52, 845–862.
- Wilkinson, J., Cooke, D.R., Baker, M.J., Chang, Z., Wilkinson, C.C., Chen, H., Fox, N., **Hollings, P.**, White, N.C., Gemmell, J.B., Loader, M.A., Pacey, A., Sievwright, R., Hart, L.A. and Brugge, E.R., 2017. Porphyry indicator minerals and their mineral chemistry as vectoring and fertility tools. Geological Survey of Canada, Open File 8345, 67–77. <https://doi.org/10.4095/306305>.
- Cooke, D.R., Agnew, P., **Hollings, P.**, Baker, M., Chang, Z., Wilkinson, J.J., White, N.C., Zhang, L., Thompson, J., Gemmell, J.B., Fox, N., Chen, H., Wilkinson, C.C., 2017. Porphyry Indicator Minerals (PIMS) and Porphyry Vectoring and Fertility Tools (PVFTS) – Indicators of Mineralization Styles and Records of Hypogene Geochemical Dispersion Halos. *Proceedings of Exploration 17: Sixth Decennial International Conference on Mineral Exploration* edited by V. Tschirhart and M.D. Thomas, 2017, p. 457–470.
- Yang, W., Niu, H., **Hollings, P.**, Zurevinski, S. E., and Li, N., 2017. The role of recycled oceanic crust in the generation of alkaline A-type granites. *Journal of Geophysical Research: Solid Earth*, 122, 9775–9783. <https://doi.org/10.1002/2017JB014921>.
- D'Angelo, M., Alfaro, M., **Hollings, P.**, Byrne, K., Piercey, S., and Creaser, R., 2017. Petrogenesis and Magmatic Evolution of the Guichon Creek Batholith: Highland Valley Porphyry Cu ± (Mo) District, South-Central British Columbia. *Economic Geology*, 112, 1857–1888.

- Zhou, H. Sun, X., Wu, Z., Liao, J., Fu, Y., Li, D., **Hollings, P.**, Liu, Y., Lin, H., and Lin, Z., 2017. Hematite U-Pb geochronometer: insights from monazite and hematite integrated chronology of the Yaoan gold deposit, Southwest China. *Economic Geology*, 112, 2023–2039.
- Sun, X., Lin, H., Fu, Y., Li, D., **Hollings, P.**, Yang, T. and Liu, Z., 2017. Trace element geochemistry of magnetite from the giant Beiya gold-polymetallic deposit in Yunnan Province, Southwest China and its implications for the ore forming processes. *Ore Geology Reviews*, 91, 477–490.
- Jansen, N., Gemmell, J.B., Chang, Z., Cooke, D.R., Jourdan, F., Creaser, R., **Hollings, P.**, 2017. Geology and Genesis of the Cerro la Mina Porphyry-High Sulfidation Au (Cu-Mo) Prospect, Mexico. *Economic Geology*, 112, 799–827.
- Li, D., Chen, H., **Hollings, P.**, Li, Z., Sun, X., Zheng, Y., Xia, X., Xiao, B., Wang, C., Fang, J., 2017. Trace element geochemistry of magnetite: Implications for ore genesis of the Talate skarn Pb-Zn (-Fe) deposit, Altay, NW China. *Ore Geology Reviews*, doi: <http://dx.doi.org/10.1016/j.oregeorev.2017.03.015>.
- Cao, M., Qin, K., Li, G., Evans, N., **Hollings, P.**, Maisch, M., Kappler, A., 2017. Mineralogical evidence for crystallization conditions and petrogenesis of ilmenite-series I-type granitoids at the Baogutu reduced porphyry Cu deposit (Western Junggar, NW China): Mössbauer spectroscopy, EPM and LA-(MC)-ICPMS analyses. *Ore Geology Reviews*, 86, 382–403.
- Zurevinski, S., **Hollings, P.**, Zhou, T. and Wang, S., 2017. Exploring the links between granitic magmas and mineralization; key concepts and critical features. *Acta Petrologica Sinica*, 33, 1541–1553.
- Sun, W., Yuan, F., Jowitt, S., Zhou, T., **Hollings, P.**, Liua, G., Lia, X., 2017. Geochronology and geochemistry of the Fe ore-bearing Zhonggu intrusions of the Ningwu Basin: Implications for tectonic setting and contemporaneous Cu-Au mineralization in the Middle–Lower Yangtze Metallogenic Belt. *Ore Geology Reviews*, In press.
- Piquer, J., **Hollings, P.**, Rivera, O., Cooke, D., Baker, M., and Testa, F., 2017. Along-strike segmentation of the Abanico Basin, central Chile: New chronological, geochemical and structural constraints. *Lithos*, 268–271, 174–197.
- Zhang, D., Zhou, T., Yuan, F., White, N., **Hollings, P.**, Xiao, W., Deng, Y., Zhao, B. and Wang, J., 2017. Genesis of Late Carboniferous granitoids in the Dayinsu area, West Junggar, Northwest China: evidence of an arc setting for the western Central Asian Orogenic Belt. *International Geology Review*, DOI: 10.1080/00206814.2016.1271290.
- Xiao, B., Chen, H., **Hollings, P.**, Han, J., Wang, Y., Cai, K., 2017. Magmatic evolution of the Tuwu–Yandong porphyry Cu belt, NW China: Constraints from geochronology, geochemistry and Sr–Nd–Hf isotopes. *Gondwana Research*, 43, 74–91.
- Li, D.F., Chen H.Y., Zhang L., Fralick, P., **Hollings P.**, Chen Y.J., Lu W.J., Han J.S., Zheng Y., Wang C.M., Fang J., Mi M., 2017. Geochemistry of clastic rocks in the Mesoproterozoic Kawabulake Group: implications for provenance and tectonic model of the Eastern Tianshan, Xinjiang, NW China. *International Journal of Earth Sciences*, 106, 115–129.
- Zou, S., Wua, C., Xu, D., Shan, Q., Zhang, X., **Hollings, P.**, Hou, M., 2016. Provenance and depositional setting of Lower Silurian siliciclastic rocks on Hainan Island, South China: Implications for a passive margin environment of South China in Gondwana. *Journal of Asian Earth Sciences*, 123, 243–262.
- Cao, M., Qin, K., Li, G., Jin, L., Zhao, J., Evans, N., **Hollings, P.**, 2016. Tectono-magmatic evolution of Late Jurassic to Early Cretaceous granitoids in the west central Lhasa subterranean, Tibet. *Gondwana Research*, 39, 386–400.
- Xu, D., Wu, C., Hu, G., Chen, M., Fu, Y., Wang, Z., Chen, H., **Hollings, P.**, 2016. Late Mesozoic molybdenum mineralization on Hainan Island, South China: Geochemistry, geochronology and geodynamic setting. *Ore Geology Reviews*, 72, 402–433.
- Liang, P., Chen, H., **Hollings, P.**, Wu, C., Xiao, B., Bao, Z., Xu, D., 2016. Geochronology and Geochemistry of Igneous Rocks from the Laoshankou District, North Xinjiang: Implications for the Late Paleozoic Tectonic Evolution and Metallogenesis of East Junggar. *Lithos*, 266–267, 115–132.
- Duan, G., Chen, H., **Hollings, P.**, Qie, J., Xua, C., Zhang, S., Xiao, B., Liue, G., Liue, J., 2016. The Mesozoic magmatic sources and tectonic setting of the Zijinshan mineral field, South China: Constraints from geochronology and geochemistry of igneous rocks in the Southeastern ore segment. *Ore Geology Reviews*, 80, 800–827, doi: 10.1016/j.oregeorev.2016.08.016.
- Liang, P., Chen, H., **Hollings, P.**, Xiao, B., Wu, C., Bao, Z., Cai, K., 2016. The Paleozoic Tectonic Evolution and Metallogenesis of the Northern Margin of East Junggar, Central Asia Orogenic Belt:

- Geochronological and Geochemical Constraints from Igneous Rocks of the Qiaoxiahala Fe-Cu Deposit, *Journal of Asian Earth Sciences*, doi: <http://dx.doi.org/10.1016/j.jseaes.2016.08.001>
- Wyman, D., Cassidy, K., and **Hollings, P.**, 2016. Orogenic gold and the mineral systems approach: Resolving fact, fiction and fantasy. *Ore Geology Reviews*, 78, 322–335.
- Li, G., Cao, M., Qin, K., **Hollings, P.**, Evans, N. and Seitmuratova, E., 2015. Geochronology, petrogenesis and tectonic settings of pre- and syn-ore granites from the W-Mo deposits (East Kounrad, Zhanet and Akshatau), Central Kazakhstan. *Lithos*, 252–253, 16–31.
- Baker, M., **Hollings, P.**, Thompson, J.A., Thompson, J.M., Burge, C., 2016. Age and geochemistry of host rocks of the Cobre Panama porphyry Cu-Au deposit, central Panama: Implications for the Paleogene evolution of the Panamanian magmatic arc. *Lithos*, 248–251, 40–54. <http://dx.doi.org/10.1016/j.lithos.2016.01.014>.
- Li, D., Chen, H., Zhang, L., **Hollings, P.**, Zhang, L., Mi, M., Li, J., Fang, J., Wang, C., and Lu, W., 2016. Re-Os pyrite geochronology of Zn-Pb mineralization in the giant Caixiashan deposit, NW China. *Mineralium Deposita*, 51, 309–317. DOI 10.1007/s00126-016-0637-0.
- Cao, M., Qin, K., Li, G., Evans, N., **Hollings, P.**, Jin, L., 2016. Genesis of ilmenite-series I-type granitoids at the Baogutu reduced porphyry Cu deposit, western Junggar, NW-China. *Lithos*, 246–247, 13–30.
- Li, G., Cao, M., Qin, K., **Hollings, P.**, Evans, N. and Seitmuratova, E., 2015. Petrogenesis of ore-forming and pre/post-ore granitoids from the Kounrad, Borly and Sayak porphyry/skarn Cu deposits, Central Kazakhstan. *Gondwana Research*, 37, 408–425.
- Li, D.F., Zhang, L., Chen, H.-Y., **Hollings, P.**, Cao, M.-J., Fang, J., Wang, C.-M., Lu, W.-J., 2015. Geochronology and geochemistry of the high Mg dioritic dikes in Eastern Tianshan, NW China: geochemical features, petrogenesis and tectonic implications. *Journal of Asian Earth Sciences*, 115, 442–454.
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- Wu, C., Chen, H., **Hollings, P.**, Xu, D., Liang, P., Han, J., Xiao, B., Cai, K., Liu, Z., and Qi, Y., 2015. Magmatic sequences in the Halasu Cu Belt, NW China: Trigger for the Paleozoic porphyry Cu mineralization in the Chinese Altay–East Junggar. *Ore Geology Reviews*, 71, 373–404.
- Deng, Y., Song, X., **Hollings, P.**, Zhou, T., Yuan, F., Chen, L. and Zhang, D., 2015. Role of asthenosphere and lithosphere in the genesis of the Early Permian Huangshan mafic ultramafic intrusion in the Northern Tianshan, NW China. *Lithos*, 227, 241–254.
- Wyman, D., **Hollings, P.**, and Conceicao, R.V., 2015. Geochemistry and radiogenic isotope characteristics of xenoliths in Archean diamondiferous lamprophyres: Implications for the Superior Province cratonic keel. *Lithos*, 233, 111–130. <http://dx.doi.org/10.1016/j.lithos.2015.02.018>.
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- Cooke, D.R., Baker, M., **Hollings, P.**, Sweet, G., Chang, Z., Danyushevsky, L., Gilbert, S., Zhou, T., White, N., Gemmell, J.B., and Inglis, S., 2014. New advances in detecting the distal geochemical footprints of porphyry systems - Epidote mineral chemistry as a tool for vectoring and fertility assessments. *Society of Economic Geologists, Special Publication 18*, 127–152.
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- Yang, W., Niu, H., Shan, Q., Chen, H., **Hollings, P.**, Lia, N., Yan, S., Zartman, R., 2014. Geochemistry of primary-carbonate bearing K-rich igneous rocks in the Awulale Mountains, western Tianshan: Implications for carbon-recycling in subduction zone. *Geochimica et Cosmochimica Acta*, 143, 143–164. DOI: 10.1016/j.gca.2014.1004.1033.
- Li, D.F., Zhang, L., Chen, H., Zheng, Y., **Hollings, P.**, Wang, C., and Fang, J., 2014. Ore genesis of the unusual Talate Pb–Zn (–Fe) skarn-type deposit, Altay, Xinjiang: constraints from geology, geochemistry and geochronology. *Geological Journal*, 49, 599–616. DOI: 10.1002/gj.2570.

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- Xu, D.R., Wang, Z.L., Chen, H.Y., **Hollings, P.**, Jansen, N., Zhang, Z.C. and Wua, C.J., 2014. Petrography and geochemistry of the Shilu Fe–Co–Cu ore district, South China: Implications for the origin of a Neoproterozoic BIF system. *Ore Geology Reviews*, 57, 322-350.
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B. Papers in review or in preparation

- Wu, C., **Hollings, P.**, Xu, D., Liang, P., Han, J., Xiao, B., Cai, K., Liu, Z., and Qi, Y., Magmatism Sequence in the Halasu Cu Belt, NW China: Trigger for the Paleozoic Porphyry Cu Mineralization in the Chinese Altay. *Ore Geology Reviews*, in review
- Wu, C., Zou S., Shan, Q., Zhang, X., **Hollings, P.**, Hou M., Petrography, geochemistry and U-Pb geochronology of the Lower Silurian siliciclastic rocks on Hainan Island, South China: Implications for source area and depositional setting. *Lithos*, in review.
- Fralick, P., **Hollings, P.** and Stewart, J., Geochemistry and Provenance of Archaeological Ceramics from West-Central Chihuahua, Mexico. *Results of Proyecto Arqueologico Chihuahua*, in review.
- Hollings P.**, Smyk, M., Heaman, L., and Cousens, B., The St Ignace Island Volcanic complex: implications for the evolution of the Midcontinent Rift in North America, in prep.
- Isaac, C., Biczok, J., and **Hollings, P.**, Stable isotope (N, O, H) geochemistry of biotite and quartz at Musselwhite Mine: implications for Au mineralization. *Geological Society of London, Special Publication*, in review.
- Heggie, G., and **Hollings, P.**, PGE mineralization a result of fractionation induced S-saturation within the Seagull Intrusion, Mesoproterozoic Midcontinent Rift, Northwestern Ontario. *Economic Geology*, in review.

C. Chapters in Books (13, 5 first author)

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D. Invited presentations (33, 25 first author)

- Hollings, P.**, Smyk, E., Baker, M., Cooke, D., 2019. Geochemistry and geochronology of the porphyry-related intrusions of the Wasatch Mountains, Utah: implications for porphyry mineralization. Institute of Geochemistry, Chinese Academy of Sciences, Guiyang China, September 17, 2019.
- Hollings, P.**, Cooke, D., D'Angelo, M., Cao, M., Smyk, E., Baker, M., Chen., H., 2019. Tectonics, magma fertility and the formation of porphyry deposits. International symposium on porphyry Cu-Au-Mo mineralization systems. Institute of Geochemistry, Chinese Academy of Sciences, Guiyang China, September 16, 2019.
- Hollings, P.**, Cooke, D., D'Angelo, M., Cao, M., Smyk, E., Baker, M., Chen., H., 2018. Tectonics, magma fertility and the formation of porphyry deposits. International symposium on porphyry Cu-Au-Mo mineralization systems, Beijing, September 8-15, 2018.
- Hollings, P.**, 2018. Geochemistry of the Middle Lower Yangtze Basin: Investigating tectonic change and the implications for mineralization. International Conference on the Metallogeny of the Middle and Lower Yangtze Metallogenic Belt. Hefei University of Technology, China, July 12-13, 2018.
- Hollings, P.**, Cooke, D., D'Angelo, M., Cao, M., Smyk, E., Baker, M., Chen., H., 2018. Tectonics, magma fertility and the formation of porphyry deposits. Resources for Future Generations Conference, Vancouver, June 16-21, 2018.

- Hollings, P.**, 2018. Using igneous petrology to unravel the tectonic triggers for porphyry mineralization. Keynote presentation, GAC Newfoundland and Labrador Section, Annual Technical Meeting, St. John's Newfoundland, February 19-10, 2018.
- Hollings, P.**, Cooke, D.R., Agnew, P., Baker, M., Chang, Z., Wilkinson, J.J., White, N.C., Zhang, L., Thompson, J., Ahmed, A., Gemmell, J.B., Fox, N., Chen, H., Wilkinson, C.C., 2017. Porphyry Indicator Minerals (PIMS) and Porphyry Vectoring and Fertility Tools (PVFTS) – Indicators of mineralization styles and recorders of hypogene geochemical dispersion halos. Keynote presentation, Quebec Mines 2017, 20-23 November, 2017. <http://mern.gouv.qc.ca/en/quebec-mines/program/conferences/>.
- Hollings, P.**, 2017. Tectonic controls on porphyry mineralization. Chinese Academy of Sciences, China, June 2017.
- Hollings, P.**, 2015. CESME - The Future of Sustainable Mining Development in Ontario. Aboriginal Business in Green Mining Regional Learning Roundtable Eastern Canada Session, Aboriginal Affairs and Northern Development Canada (AANDC), March 25th 2015, Thunder Bay, Ontario.
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- Hollings, P.**, 2014. The nature of Archean tectonics. Ore Deposit and Exploration Centre (ODEC), School of Resources and Environmental Engineering, Hefei University of Technology, China, October 2014.
- Hollings, P.**, Sweet, G., Baker, M. and Cooke, D.R., 2013. Tectonic triggers for porphyry Cu-Au mineralization in Northern Luzon, Philippines. Guangzhou Institute of Geochemistry, Chinese Academy of Sciences, Guangzhou, China, November 2013.
- Hollings, P.** and Smyk, M., 2013. Metallogeny and geochemistry of the Midcontinent Rift of N America. Ore Deposit and Exploration Centre (ODEC), School of Resources and Environmental Engineering, Hefei University of Technology, China, November 2013.
- Hollings, P.**, Sweet, G., Baker, M., Cooke, D.R. and Friedman, R., 2013. Tectonomagmatic controls on porphyry mineralization: Geochemical evidence from the Black Mountain porphyry system, Philippines. Keynote presentation, Whistler 2013: Geoscience for Discovery, September, 2013.
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- Gemmell, J.B., Cooke, D.R., Chang, Z., White, N., **Hollings, P.**, and Wilkinson, J., 2012, Metal dispersion around porphyry Cu-Mo-Au deposits: Implications for fluid flow and exploration: Gordon Research Conference, New Hampshire, USA, 15–20 July.
- Hollings, P.**, Cooke, D.R., and Chen, H., 2013. Cenozoic and Mesozoic copper and gold deposits of the Chilean Andes. DMEC workshop series: Exploring undercover in a world-class copper belt of Chile, PDAC March, 2013.
- Hollings, P.**, Cooke, D.R., Wolfe, R., Sweet, G., and Baker, M., 2012. Tectonic triggers for porphyry Cu-Au mineralization in Northern Luzon, Philippines. University of Minnesota – Duluth, Research Presentation. Duluth, Minnesota, October, 2012.
- Hollings, P.**, 2011. Nickel-copper-PGE mineralisation in the Midcontinent rift of North America. ARC Centre of Excellence in Ore Deposits, University of Tasmania, December 5, 2011.
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- Hollings, P.**, Isaac, C., Wyman, D. and Biczok, J., 2010. Isotopic and geochemical research at Musselwhite Mine. Musselwhite Mine research conference, Thunder Bay, Ontario, June 8, 2010.
- Hollings, P.**, 2009. Volcanic geochemistry: Insights into the tectonic controls on ore deposits and metallogenesis. In: Ore Deposit Geochemistry, Hydrology and Geochronology, Short Course Notes, ARC Centre of Excellence in Ore Deposits, University of Tasmania, June 16, 2009.
- Hollings, P.**, 2009. Magma genesis and ore deposits. Sources and sinks in hydrothermal systems – a two-day shortcourse, Mineral Exploration Roundup 2009, Vancouver, B.C., January 24 & 25, 2009.

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- Hollings, P.**, 2007. Industry-university research partnerships: how they work and how you can benefit. Ontario Exploration and Geoscience Symposium, Sudbury, Ontario. December 11-12, 2007.
- Hollings, P.**, 2007. Geochemistry of the 2.7 to 3.0 Ga Uchi subprovince: implications for Archean tectonic processes. Archean Symposium 2007: A global comparison of Archean terranes. University of Western Ontario, London, Ontario. August 20-21, 2007. 8-9
- Hollings, P.**, 2006. Applying academic research to mineral exploration. Marathon-Hemlo Mining and Prospecting Expo, Marathon, Ontario, September 19th, 2006.
- Hollings, P.**, Fralick, P., Kissin, S., Richardson, A., and Metsaranta, R., 2005. Geology, geochemistry and ore deposit genesis in the Nipigon Embayment. CIM Annual Meeting, Toronto, Ontario, April 24-27, 2005. P.117.
- Hollings, P.**, Richardson, A., Metsaranta, R., Fralick, P., 2004. Lake Nipigon Region Geoscience Initiative: Geochemical and stratigraphic evidence for multiple magma sources for the Nipigon sills. Ontario Exploration and Geoscience Symposium, Toronto, Ontario. December 13-15, 2004.
- Hollings, P.**, Cooke, D., Cannell, J., and Walshe, J. 2004. Giant porphyry deposits – Characteristics, distribution and controls. Canadian Institute of Mining and Metallurgy – Thunder Bay Branch, Technical Presentation. Thunder Bay, Ontario, October 19, 2004.
- Hollings, P.**, Cooke, D., Cannell, J., and Walshe, J. 2004. Giant porphyry deposits – Characteristics, distribution and controls. University of Minnesota – Duluth, Research Presentation. Duluth, Minnesota, October 21, 2004.
- Hollings, P.** and Wyman, D., 2004. The Geochemistry of Trace Elements in Igneous Systems: Principles and Examples from Basaltic Systems. Rare Element Geochemistry and Ore Deposits, Geological Association of Canada Short Course, St Catherines, May 10 & 11, 2004.
- Hollings, P.**, 2003. Geochemical Tools for Gold Exploration. Northwestern Ontario Mines and minerals Symposium 2003. Archean Lode Gold deposits in Ontario. Shortcourse, April 2003

E. Conference Proceedings (127, 27 first author)

- Hollings, P.**, Chen, H., Cao, M., Cooke, D.R., 2019. Magmatic Evolution of the Cerro Casale Au-Cu-Porphyry System, Chile: Geochemistry, Mineral Chemistry and Geochronology. Society of Economic Geologists Annual Conference 2019, South American Metallogeny: Sierra to Craton, Santiago, Chile, October 7-10, 2019, p. 100.
- Baker, M., Cooke, D.R., Wilkinson, J., Chen, H., Wilkinson, C., **Hollings, P.**, Chang, Z., Fox, N., Thompson, J., 2019. Discrimination of Magmatic-Hydrothermal Deposit Types Using Epidote ICP-MS Trace Element Chemistry. Society of Economic Geologists Annual Conference 2019, South American Metallogeny: Sierra to Craton, Santiago, Chile, October 7-10, 2019, p. 070.
- Arnold, K., **Hollings, P.**, Magnus, S., Zurevinski, S and Creaser, R., 2019. Geology and Geochemistry of the Terrace Bay Batholith, N. Ontario. In; Puumala, M., (Ed.), Institute on Lake Superior Geology Proceedings, 51st Annual Meeting, Nipigon, Ontario, Part 1 - Abstracts and Proceedings. v.65, part 1, 4-5.
- Bleeker, W., Hamilton, M., Kamo, S., Liikane, D., Smith, J., **Hollings, P.**, Cundari, R., Easton, M., and Davis, D., 2019. High-resolution dating of the magmatic plumbing system of the Midcontinent Rift System—Insights into rift evolution and mineralization processes. In; Puumala, M., (Ed.), Institute on Lake Superior Geology Proceedings, 51st Annual Meeting, Nipigon, Ontario, Part 1 - Abstracts and Proceedings. v.65, part 1, 10-11.
- Gélinas, B., **Hollings, P.**, and Friedman, R., 2019. Geology and Geochemistry of the Laird Lake Property and Associated Gold Mineralization, Red Lake Greenstone Belt, Ontario. In; Puumala, M., (Ed.), Institute on Lake Superior Geology Proceedings, 51st Annual Meeting, Nipigon, Ontario, Part 1 - Abstracts and Proceedings. v.65, part 1, 42-43.
- Good, D., **Hollings, P.**, and Jedermann, A., 2019. Recognizing MCR magmas generated by partial melting in the SCLM: Lessons from mafic magmas in the Coldwell Complex. In; Puumala, M., (Ed.), Institute on Lake Superior Geology Proceedings, 51st Annual Meeting, Nipigon, Ontario, Part 1 - Abstracts and Proceedings. v.65, part 1, 46-47.

- Boucher, C., **Hollings, P.**, 2019. Geology and Geochemistry of Ultramafic rocks in the Lake of the Woods Area. In; Puumala, M., (Ed.), Institute on Lake Superior Geology Proceedings, 51st Annual Meeting, Nipigon, Ontario, Part 1 - Abstracts and Proceedings. v.65, part 1, 18-19.
- Wang, S., **Hollings, P.**, and Kuzmich, B., 2019. Petrological and geochemical characteristics of the granitic rocks from the Dog Lake Granite Chain: Implications for the genesis of Quetico Basin. In; Puumala, M., (Ed.), Institute on Lake Superior Geology Proceedings, 51st Annual Meeting, Nipigon, Ontario, Part 1 - Abstracts and Proceedings. v.65, part 1, 97-98.
- Arnold, K., **Hollings, P.**, Magnus, S., Zurevinski, S and Creaser, R., 2018. Geology and Geochemistry of the Terrace Bay Batholith, N. Ontario. Institute on Lake Superior Geology Proceedings, 64th Annual Meeting, Iron Mountain, Michigan, Part 1 - Proceedings and Abstracts, v. 64, 3-4.
- Liikane, D., Bleeker, W., Hamilton, M., Kamo, S., Smith, J., **Hollings, P.**, Cundari, R., and Easton, M., 2018. Controls on the localization and timing of mineralized intrusions within the ca. 1.1 Ga Midcontinent Rift system. Institute on Lake Superior Geology Proceedings, 64th Annual Meeting, Iron Mountain, Michigan, Part 1 - Proceedings and Abstracts, v. 64, 65-66.
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- Wyman, D.A., **Hollings, P.**, Polat, A., and Kerrich, R., 1996. Prospective versus barren belts for VMS deposits: A new exploration strategy: Fall 1996 Progress Report and Summary of Fieldwork, to the Mining Industry Technology Council of Canada. 202 p.
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5. RESEARCH GRANTS

Career total - \$2,793,202

- 2019-2020: Indigenous and academic geological internship. **\$31,500** Northern Ontario Heritage Fund Corporation
- 2019-2021: Petrology and geochemistry of intrusive rocks at the Lac des Iles mine. **\$50,000** North American Palladium
- 2018-2021: Mineral chemistry as a vector to mineralisation in porphyry systems. **\$173,300** NSERC CRD grant
- 2018-2021: Mineral chemistry as a vector to mineralisation in porphyry systems. **\$100,000** Australian Mining Industries Research Association/University of Tasmania
- 2017-2022: Geochemistry of pyroxene-phyrlic komatiites in the Southern Superior Province; Implications for Archean geodynamics. **\$110,000** NSERC Discovery Grant
- 2017-2019: Geochronology and mineral chemistry as exploration tools for economic diamond deposits in the Superior Province. **\$100,000** Churchill Diamonds & CEMI
- 2016-2017: Mineral chemistry of the alteration halo around the orogenic gold deposits of Red Lake. **\$45,000** Lakehead University Internal Research Chair
- 2016-2016: Geology and geochemistry of the Laird Lake area, Red Lake, Ontario. **\$7,500** Mitacs (matching part of the funds from Bounty Gold)
- 2016-2018: Mineral chemistry as a vector to orogenic gold mineralization. **\$178,350**

- NSERC CRD grant
- 2016-2018: Mineral chemistry as a vector to orogenic gold mineralization. **\$100,000** Australian Mining Industries Research Association/University of Tasmania
- 2015-2017: Geology and geochemistry of the Laird Lake area, Red Lake, Ontario. **\$30,000** Bounty Gold Corporation
- 2015-2015: Geology and geochemistry of the Laird Lake area, Red Lake, Ontario. **\$7,500** Mitacs (matching part of the funds from Bounty Gold)
- 2013-2018: Integrated multi-parameter footprints of ore systems: the next generation of ore deposit models. **\$5,078,496** NSERC CRD grant. (*not included in total*)
- 2013-2018: Integrated multi-parameter footprints of ore systems: the next generation of ore deposit models. **\$5,078,496** Canadian Mining Innovation Council grant. (*not included in total*)
- 2012-2017: Mapping the Archean mantle through the geochemistry of TTG and lamprophyres. **\$190,000** NSERC Discovery Grant
- 2012-2014: Tectonic setting and magmatic fertility of igneous rocks associated with porphyry mineralization. **\$90,825** NSERC CRD grant
- 2011-2014: Mineral geochemical indicators of magma fertility. **\$100,000** from the Australian Mining Industries Research Association
- 2010-2012: Hybrid Rock Unit associated with the Current Lake Intrusive Complex. **\$37,307** from Magma Metals Ltd.
- 2008-2009: Stable isotope geochemistry of the Musselwhite Mine. **\$15,000** from Musselwhite Mine
- 2008-2009: Geochemistry of lithic materials from the Woodland Caribou Provincial Park, N. Ontario: Developing new methods for sourcing lithic artifacts. **\$5000** from the Senate Research Committee, Lakehead University
- 2008-2009: Travel award. **\$600** from the Senate Research Committee, Lakehead University
- 2008-2009: Travel award. **\$790** from the Northern Studies Committee, Lakehead University
- 2008-2011: Geochemical and geological halos in green rocks and lithocaps. **\$76,000** from the Australian Mining Industries Research Association
- 2008-2011: Igneous Petrology and Alteration of the Baguio area, Philippines. **\$88,250** from the Australian Mining Industries Research Association
- 2008-2011: Gold mineralisation in the Kakagi-Rowan Lake greenstone belt. **\$50,000** NSERC CRD grant
- 2008-2011: Geochemistry and alteration of porphyry related intrusions in the Philippines. **\$77,028** NSERC CRD grant
- 2007-2012: Xenoliths in 2.7 Ga diamondiferous lamprophyres: A record of upper mantle compositions and metasomatism during orogeny. **\$120,000** NSERC Discovery Grant (\$24,000 per year for five years).
- 2007-2009: Geology, geochemistry and mineralization of the West Cedartree Lake property, Kenora, N Ontario. **\$50,000** from Houston Lake Mining,
- 2007-2009: Geochemistry, geophysics and mineral resources of the Big Lake Property. **\$121,500** from the Ontario Centres of Excellence
- 2007-2009: Geochemistry and petrogenesis of the Big Lake VMS deposit. **\$50,000** from MetalCORP Ltd.

- 2006-2008: Regional geochemistry and stratigraphy of the Musselwhite Au mine. **\$49,600** from FedNor.
- 2006-2007: Petrogenetic and geochemical controls on mineralisation: Investigating the role of the Archean Mantle. **\$20,100** NSERC Discovery Grant
- 2005-2006: Geochemistry and stratigraphy of the Musselwhite gold mine. **\$50,000** from Musselwhite Mine
- 2004: Radiogenic and stable isotopes of rocks of the Nipigon Sills. **\$47,000** from the Ontario Prospectors Association
- 2003: Microanalytical research facility. **\$197,913** from the CFI New Opportunities Fund/Ontario Innovation Trust (including in kind contribution from manufacturer)
- 2003-2005: Igneous petrology and whole-rock geochemistry of Nipigon sills and their relationship to ore deposits. **\$108,000** from the Ontario Prospectors Association
- 2003-2006: Geochemistry of volcanic rocks associated with flat slabs in South America: Implications for the evolution of a convergent plate margin. **\$38,670** NSERC Discovery Grant. *Note – this award was extended from 2 years to 3 years by NSERC in 2004*
- 2003: PGE mineralisation at the Norton and Seagull deposits in northern Ontario. **\$30,000** from East West Resource Corporation and IRAP
- 2003: **\$1,000** from Northern Studies to support conference travel
- 2002: Geology and geochemistry of the Slate Islands, Northern Ontario. **\$5,000** from the Senate Research Committee, Lakehead University
- 2001: Startup funds. **\$4,000** from Lakehead University
- 2001: Geochemistry of the Osler Group Volcanics, Northern Ontario. **\$4,000** from the Senate Research Council, Lakehead University
- 2001: Magnetite chemistry as an exploration tool for Cu porphyry deposits and other hydrothermal systems. **\$5,600** from the Centre for Ore Deposit Research.
- 2000: Isotopic characterisation of felsic units of the Mt. Read Volcanics, Tasmania. **\$4000** from the Centre for Ore Deposit Research.
- 1999-2001: NSERC Postdoctoral Fellowship. **\$70,000** over two years
- 1998: Sequential filtration of surface and groundwaters from the Rabbit Lake uranium mine, northern Saskatchewan, Canada. A **\$10,000** grant from Cameco Corporation in collaboration with Prof. J. Hendry to study of the effects of colloid distribution on groundwater quality

6. PROFESSIONAL ASSOCIATIONS

- 2009 – present: Fellow of the Society of Economic Geologists
- 2004 – 2009: Member of the Society of Economic Geologists
- 2001 – present: Member of the Institute on Lake Superior Geology
- 2001 – present: Member of the Geological Association of Canada
- 1999 – present: Member of the American Geophysical Union
- 1999 – present: Member of the Geological Society of America
- 1999 – 2005: Member of the National Speleological Society.

7. PROFESSIONAL COMMITTEES

2019 – present:	Associate Editor for Acta Geologica Sinica
2017 – present:	Associate Editor for Mineralium Deposita
2015 – 2016:	Member of the Ontario Mining Research and Innovation Strategy - Working Committee
2015 – 2016:	Chair of the Council of Chairs of Canadian Earth Science Departments
2015:	Panel Chair for the Environmental and Natural Sciences panel for the Early Career Researcher Awards program of the Ontario Ministry of Research and Innovation
2014:	Reviewer on the Environmental and Natural Sciences panel for the Early Career Researcher Awards program of the Ontario Ministry of Research and Innovation
2014 – present:	Member of the Lindgren Award Committee of the Society of Economic Geologists
2013 – present:	President of the Volcanology and Igneous Petrology Division of the Geological Association of Canada.
2006 – 2013:	Secretary/Treasurer of the Volcanology and Igneous Petrology Division of the Geological Association of Canada.
2011-2012:	Chair of the 58 th Annual Meeting of the Institute on Lake Superior Geology held in Thunder Bay, May 2012.
2010:	Chair of an NSERC Site Visit Committee to review an Industrial Research Chair application submitted by Memorial University of Newfoundland
2009-2010:	Co-chair of the 56 th Annual Meeting of the Institute on Lake Superior Geology held in International Falls, May 2010.
2008 – 2011:	Co-guest editor for Special Issue of Economic Geology.
2007 – 2008:	Co-guest editor for Special Issue of Precambrian Research.
2006 – 2013:	Associate Editor for Canadian Journal of Earth Sciences
2007 – present:	Campus representative for the Geological Association of Canada.
2006 – 2013:	Secretary/Treasurer for the Volcanology and Igneous Petrology Division of the Geological Association of Canada.
2006-2007:	Co-guest editor for Special Issue of Canadian Journal of Earth Sciences
2004-2005:	Co-chair of the 51 st Annual Meeting of the Institute on Lake Superior Geology held in Nipigon, May 2005.
2004 – present:	Secretary for the Institute on Lake Superior Geology
2004:	Reviewer and Panel Chair for the Ontario Graduate Scholarships Program
2003-2005:	Guest Editor for Special Issue of Economic Geology
2003:	Reviewer for the Ontario Graduate Scholarships Program
2002 – 2005:	Member of the Science Committee of the Lake Nipigon Region Geoscience Initiative
2001 - present:	Student Liaison and Program Co-ordinator for the Thunder Bay

2002 – 2004: Chapter of the Canadian Institute of Mining
Secretary/Treasurer for the Institute on Lake Superior Geology

8. ADMINISTRATIVE RESPONSIBILITIES

2016 – 2016: Interim Dean, Faculty of Science and Environmental Studies
2013 – present: Director, Centre of Excellence for Sustainable Mining and Exploration
2012 – present: Chair, Department of Geology
2012 – present: Member of Senate
2010 – 2012: NSERC Representative for Research Office
2009 – 2012: Member of the Senate Research Committee
2009 – 2010: Chair of the Senate Research Committee
2009 – 2010: Member of the Senate Executive Committee
2009 – 2010: Member of Senate
2009 – 2010; Member of the Senate Academic Committee
2006 – 2010: NSERC representative on campus
2006 – 2015: Departmental Honours coordinator
2006 – present: Member of the Nominations committee
2006 – 2008: Member of the Senate Research Committee
2006 – 2008: Member of the NSERC subcommittee of the Senate Research Committee
2006 – present: Departmental Library representative
2004: Acting Department Chair, July-August 2004
2003 – 2006: Member of the Senate Executive Committee
2003 – 2006: Member of Senate
2003 – present: Departmental scheduling representative
2003 – present: Departmental website coordinator
2002 – 2006: Chair of Animal Care Committee
2003 – 2005: Chair of the Senate Committee on Honorary Degrees
2002 – 2003: Member of the Senate Committee on Honorary Degrees

9. COURSES TAUGHT AND PARTICIPATION IN CURRICULUM DEVELOPMENT

Courses taught 2018-2019

GEOL5151 – Advanced Topics in Igneous Petrology I - 2 students
GEOL4161 – Fieldschool – 9 students
GEOL2318 – Field mapping – 6 students

Courses taught 2017-2018

GEOL5151 – Advanced Topics in Igneous Petrology I - 1 students
GEOL5153 – Advanced Topics in Igneous Petrology II - 1 students
GEOL4161 – Fieldschool – 10 students

GEOL2318 – Field mapping – 8 students

Courses taught 2016-2017

GEOL5151 – Advanced Topics in Igneous Petrology I - 6 students

GEOL5153 – Advanced Topics in Igneous Petrology II - 5 students

GEOL2318 – Field mapping – 13 students

Courses taught 2015-2016

GEOL5151 – Advanced Topics in Igneous Petrology I - 3 students

GEOL5153 – Advanced Topics in Igneous Petrology II - 3 students

GEOL2213/2215 – The Nature of Igneous Activity – 12 students

GEOL2318 – Field mapping – 12 students

Courses taught 2014-2015

GEOL5151 – Advanced Topics in Igneous Petrology I - 1 students

GEOL5153 – Advanced Topics in Igneous Petrology II - 1 students

GEOL2213/2215 – The Nature of Igneous Activity – 23 students

GEOL2318 – Field mapping – 24 students

Courses taught 2013-2014

GEOL5151 – Advanced Topics in Igneous Petrology I - 3 students

GEOL5153 – Advanced Topics in Igneous Petrology II - 3 students

GEOL2213/2215 – The Nature of Igneous Activity – 48 students

GEOL2318 – Field mapping – 23 students

GEOL4215 – Advanced Igneous Petrology – 13 students

Courses taught 2012-2013 (on sabbatical)

GEOL5175 – Mapping and alteration of hydrothermal ore deposits – 1 student

GEOL5175 – Ore deposit models – 1 student

GEOL5151 – Advanced Topics in Igneous Petrology I - 6 students

GEOL2318 – Field Mapping – 30 students

Courses taught 2011-2012

GEOL3311/ENST3312 – Environmental Geology - 65 students

GEOL2213/2215 – The Nature of Igneous Activity – 23 students

GEOL2318 – Field Mapping – 25 students

GEOL4215 – Advanced Igneous Petrology – 27 students

Courses taught 2010-2011

GEOL3311/ENST3312 – Environmental Geology - 70 students

GEOL2213/2215 – The Nature of Igneous Activity – 30 students

GEOL2318 – Field Mapping – 25 students

GEOL4215 – Advanced Igneous Petrology – 7 students

GEOL5151 – Advanced Topics in Igneous Petrology I – 4 students

GEOL5153 – Advanced Topics in Igneous Petrology II – 3 students

Courses taught 2009-2010

GEOL3311/ENST3312 – Environmental Geology - 75 students
GEOL2213/2215 – The Nature of Igneous Activity – 20 students
GEOL2318 – Field Mapping – 10 students
GEOL4161 – Field school – 10 students
GEOL4215 – Advanced Igneous Petrology – 10 students
GEOL5151 – Advanced Topics in Igneous Petrology I – 2 students
GEOL5153 – Advanced Topics in Igneous Petrology II – 2 students

Courses taught 2008-2009

GEOL3311/ENST3312 – Environmental Geology - 40 students
GEOL2213/2215 – The Nature of Igneous Activity – 24 students
GEOL2318 – Field Mapping – 11 students
GEOL4161 – Field school – 10 students
GEOL4215 – Advanced Igneous Petrology – 8 students
GEOL5151 – Advanced Topics in Igneous Petrology I – 1 student
GEOL5153 – Advanced Topics in Igneous Petrology II – 3 students
GEOL5175 – Ore Deposit Models – 1 student

Courses taught 2007-2008 (on sabbatical)

GEOL5175 - Geochemistry and mineralisation of Cu-Au porphyry deposits – 1 student
GEOL5151 – Advanced Topics in Igneous Petrology I - 2 students

Courses taught 2006-2007

GEOL3311/ENST3312 – Environmental Geology – 31 students
GEOL2213/2215 – The Nature of Igneous Activity – 15 students
GEOL2318 – Field Mapping – 13 students
GEOL4215 – Advanced Igneous Petrology – 8 students
GEOL5151 – Advanced Topics in Igneous Petrology I - 2 students

Courses taught 2005-2006

GEOL3311/ENST3312 – Environmental Geology – 66 students
GEOL2213/2215 – The Nature of Igneous Activity – 12
GEOL2318 – Field Mapping – 10
GEOL4161 – Field school - 2
GEOL4215 – Advanced Igneous Petrology – 7
GEOL5151 – Advanced Topics in Igneous Petrology I - 3 students
GEOL5155 – Methods in Geochemistry – 2 students
GEOL5153 - Advanced Topics in Igneous Petrology II - 1 students

Courses taught 2004-2005

GEOL3311/ENST3312 – Environmental Geology – 59 students
GEOL2213 – The Nature of Igneous Activity – 8 students
GEOL4161 – Field school – 7 students (two week field school in SW USA co-lead with Dr. A. Conly)

GEOL4215 – Advanced Igneous Petrology – 4 students
 GEOL2318 – Field Mapping – 8 students
 GEOL5151 – Advanced Topics in Igneous Petrology I - 1 student
 GEOL5115 - Advanced Mineralogy - 2 students

Courses taught 2003-2004

GEOL3311/ENST3312 – Environmental Geology – 23 students
 GEOL2213 – The Nature of Igneous Activity – 6 students
 GEOL4161 – Field school – 3 students
 GEOL4215 – Igneous Petrology – 3 students
 GEOL4218 – Geochemistry II – 3 students
 GEOL5151 – Advanced Topics in Igneous Petrology I - 1 student
 GEOL5115 - Advanced Mineralogy - 2 students

Courses taught 2002-2003

GEOL3311/ENST3312 – Environmental Geology – 24 students
 GEOL1050 – Introductory Geology for Forestry students – 21 students (lecture and lab)
 GEOL1110/ENST1111 – Planet Earth - 152 students
 GEOL4218 – Geochemistry II - 1 student
 GEOL4161 – Field school – 6 students
 GEOL5151 – Advanced Topics in Igneous Petrology I - 2 students
 GEOL5153 - Advanced Topics in Igneous Petrology II - 4 students

Courses taught 2001-2002

GEOL3311/ENST3312 – Environmental Geology – 30 students
 GEOL5010 – Basic Scientific Methods in Geology – 29 students
 GEOL1050 - Introductory Geology for Forestry students – 41 students (lecture and lab)

Graduate supervision

Lifetime Summary

HBS Sc Supervisor	34
HBS Sc Co-supervisor	3
MSc Supervisor	31
MSc Co-supervisor	5
PhD Co-supervisor.....	9
Postdoctoral Fellow Supervisor	1
Postdoctoral Fellow Co-supervisor	6

Postdoctoral Fellows

Wang, S., 2017 to present, PDF Lakehead University
 Co-supervisor with Dr. S. Zurevinski
 Title: Petrogenesis of diamond bearing rocks in N. Ontario

Mills, D. 2017 to present, PDF Lakehead University
Title: Indigenous natural resources

Lee, R., 2014-2018, PDF University of British Columbia
Co-supervisor with Dr. C. Hart (U.B.C)
Title: Alteration footprint around the HVC porphyry deposit

Skogstad, K., 2014-2017, PDF Lakehead University
Co-supervisor with Dr. R. Petrunia
Title: Economic impact of mining in Northern Ontario

Cao, M., 2014-2015, Visiting PDF Lakehead University
Title: Lu-Hf systematics of zircons from the Wabigoon subprovince
Petrogenesis and Metallogenesis of Baogutu Reduced Porphyry Cu Deposit

Lu, Y. 2012-2015, PDF University of Western Australia
Co-supervisor with Dr. C. McCuaig (U.W.A)
Title: Lu-Hf systematics of zircons from the Wabigoon subprovince

Baker, M. 2008-present, PDF University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: Geochemical targeting in magmatic-hydrothermal systems

Chen, H. 2008-2012, PDF University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: Geochemical targeting in magmatic-hydrothermal systems

Ph.D. theses

Smyk, E., 2018-present, Ph.D., University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: Geochemistry of the Christmas porphyry deposit, Arizona

Ross, J., 2017-present, Ph.D., Lakehead University
Title: The Duty to Consult in Treaty 3 territory

Lesage, G., 2014-present, Ph.D., University of British Columbia
Co-supervisor with Dr. C. Hart (U.B.C)
Title: Geology and alteration of the HVC Cu mine, B.C.

Bjorkman, K. 2013-2017, Ph.D., University of Western Australia
Co-supervisor with Dr. C. McCuaig (U.W.A)
Title: Lu-Hf and O isotopes of zircons from the Wabigoon terrane

Piquer, J. 2012-2015, Ph.D., University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: Structural geology of Central Chile porphyry deposits

Jansen, N. 2008-2012, Ph.D., University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: Ixhuatan porphyry system, Chiapas, Mexico

Frikken, P. 1999-2004, Ph.D., University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: Geology, geochemistry and genesis of porphyry- and breccia-hosted Cu-Mo mineralisation at Andina, Chile

Cannell, J. 1999-2004, Ph.D., University of Tasmania
Co-supervisor with Dr. D. Cooke (U. Tas.)
Title: El Teniente porphyry Cu-Mo deposit, Chile: Geology, geochemistry and genesis

Masters theses

Currie, V., 2019 – present. M.Sc., Lakehead University
Title: Geochemistry of intrusive rocks at Lac des Iles

Jedemann, A., 2018- present. M.Sc., Lakehead University
Title: Geochemistry of the Pemberton Hills greenrock alteration

Hamilton, P., 2018- present. M.Sc., Lakehead University
Title: Geochemistry of the Pemberton Hills lithocap

Boucher, C., 2017-present. M.Sc., Lakehead University
Title: Geochemistry of Lake of the Woods komatiites

Gorner, E., 2016-present. M.Sc., Lakehead University
Title: Alteration mineral chemistry of the Hemlo Au deposit

Vrzovski, J., 2016-2019. M.Sc., Lakehead University
Title: Alteration mineral chemistry of the Hemlo Au district

Derome, N., 2016-present. M.Sc., Lakehead University
Title: Alteration mineral chemistry of the Red Lake Au deposit

Arnold, K., 2016-2019. M.Sc., Lakehead University
Title: Geology and geochemistry of Terrace Bay Batholith, N. Ontario

Hinz, S., 2015-2018. M.Sc., Lakehead University
Title: Ultramafic rocks of Conmee Township

Gelinas, B., 2015-2018. M.Sc., Lakehead University
Title: Geology and Geochemistry of the Laird Lake area, Red Lake, Ontario

Grenon, C., 2015-present, M.Sc., Ecole Polytechnique
Title: Petrophysical properties of rocks from the HVC porphyry, B.C.

O'Brien, S., 2014-2018. M.Sc., Lakehead University
Title: Geochemistry and mineralogy of the Crystal Lake gabbro

Smyk, E., 2013-2015. M.Sc., Lakehead University
Title: Geochemistry and mineralogy of the White Pine and Buckingham porphyries

D'Angelo, M., 2013-2016. M.Sc., Lakehead University
Title: Geochemistry of the Guichon batholith, B.C.

Stainton, T., 2013-DNF. M.Sc., Lakehead University
Title: Lu-Hf characteristics of zircons from the Northern Superior Province

Baig, A., 2012-2016. M.Sc., Lakehead University
Title: Geochemistry and mineralogy of the MAX porphyry, BC

Kuzmich, B., 2012-2015. M.Sc., Lakehead University
Title: Petrology and geochemistry of Fe-Ti-V intrusions, McFaulds Lake belt

Lueck, W., 2012-DNF. M.Sc., Lakehead University
Title: Geochemistry and mineralogy of the Highland Valley porphyry, BC

Trevisan, B., 2012-2015. M.Sc., Lakehead University
Title: Petrology and geochemistry of the Thunder intrusion

Chaffee, M., 2010-2015. M.Sc., University of Minnesota Duluth
Petrology and geochemistry of the hybrid unit, Current Lake

Temelkovski, A., 2010-DNF. M.Sc., Lakehead University
Title: Diamondiferous lamprophyres of the Kirkland Lake area, Ontario

Cundari, R., 2010-2012. M.Sc., Lakehead University
Title: Geochemistry of intrusive rocks of the Midcontinent Rift, Ontario

Seals, J., 2009-present. M.Sc., Lakehead University
Title: Stable isotope chemistry of the West Cedartree Lake gold property

Siemeniuk, S., 2009-present. M.Sc., Lakehead University
Title: Prospectivity analysis of the Wabigoon subprovince, Ontario

Fage, A., 2008-2011. M.Sc., Lakehead University

Title: Geochemistry of the Fearless-Python VMS deposit, NW Ontario

Sweet, G., 2008-2010. M.Sc., Lakehead University

Title: Geology of the Black Mountain porphyry deposit, Philippines

Rinne, M., 2007-2010. M.Sc., Lakehead University

Title: Geology and geochemistry of the Big Lake VMS mineralisation

Secord, S., 2007-2010. M.Sc., Lakehead University

Title: Geology and geochemistry of the West Cedartree Lake gold property

Wendland, C., 2007-2010. M.Sc., Lakehead University

Title: Diamondiferous lamprophyres from the Wawa and Kirkland Lake areas

Isaac, C., 2006-2008. M.Sc., Lakehead University

Title: Geochemistry and Stable isotopes of the Musselwhite Mine

Moran, P., 2005-2008. M.Sc., Lakehead University

Title: Geochemistry and stratigraphy of the Musselwhite Mine

Shute, A., 2005-2008. M.Sc., Lakehead University

Title: Geochemistry of the VMS-hosting rhyolites at Hamlin Lake

Magee, A., 2004-2007. M.Sc., Lakehead University (*transferred to Carlton University*)

Title: Petrology and geochemistry of mafic pillow basalts in the Nipigon basin.

Laarman, J., 2004-2007. M.Sc., Lakehead University

Title: PGE mineralization and geochemistry of the Eva Kitto intrusion, Northwestern Ontario

Richardson, A. Did not complete. M.Sc., Lakehead University

Title: Geochemistry of the Nipigon diabase sills

Johnson, J. 2001-2005, M.Sc., Lakehead University

Title: Mineralogical and geochemical characteristics of PGE mineralisation in the Norton Lake greenstone belt, northern Superior Province

Heggie, G. 2002-2005, M.Sc. Lakehead University

Title: PGE mineralization and geochemistry of the Seagull intrusion, Northwestern Ontario

Frikken, P. 1999-2003, Ph.D., University of Tasmania

Title: Geology, geochemistry and genesis of porphyry- and breccia-hosted Cu-Mo mineralisation at Andina, Chile

Cannell, J. 1999-2004, Ph.D., University of Tasmania

Title: El Teniente porphyry Cu-Mo deposit, Chile: Geology, geochemistry and genesis

Honours theses

Fay, L., 2016-2017. Honours thesis, Lakehead University
Title: Alteration mineral chemistry of the Heron Bay area, Northern Ontario

Boucher, C., 2016-2017. Honours thesis, Lakehead University
Title: Geochemistry and petrography of altered sandstones, Northern Ontario

Melchiorre, M., 2016-2017. Honours thesis, Lakehead University
Title: Geochemistry and petrography of the Copper Bar Ni-Cu-PGE project

Hughes, A., 2015-2016. Honours thesis, Lakehead University
Title: Petrology and geochemistry of the McKenzie granite, Northern Ontario

Davis, S., 2015-2016. Honours thesis, Lakehead University
Title: Petrology and geochemistry of the Wolf Camp basalts

Hinz, S., 2014-2015. Honours thesis, Lakehead University
Title: Geochemistry and petrography of the Badwater gabbro

Dumoulin, K., 2014-2015. Honours thesis, Lakehead University
Title: Petrology and geochemistry of the Campbell Diorite, Red Lake

McLeod, M., 2014-2015. Honours thesis, Lakehead University
Title: Petrology and geochemistry of the mafic dikes at Hemlo Au mine

Bjorkman, R., 2013-2014. Honours thesis, Lakehead University
Title: The mapping and petrography of an Archean maar deposit

Quinn, J., 2013-2014. Honours thesis, Lakehead University
Title: Mapping and geochemistry of the North Caribou belt

Pisani, B., 2013-2014. Honours thesis, Lakehead University
Title: Mapping and geochemistry of the North Caribou belt

Fry, K., 2012-2013. Honours thesis, Lakehead University
Title: Mapping and geochemistry of the North Caribou belt

D'Angelo, M., 2012-2013. Honours thesis, Lakehead University
Title: Geochemistry and petrology of the Steepledge intrusion

Seaby, J., 2012-2013. Honours thesis, Lakehead University
Title: Geochemistry of Midcontinent Rift sills

Smyk, E., 2012-2013. Honours thesis, Lakehead University

Title: Mapping and geochemistry of the North Caribou belt

Kuzmich, B., 2011-2012. Honours thesis, Lakehead University
Title: Geochemistry of Quetico granites

Bjorkman, K., 2010-2011. Honours thesis, Lakehead University
Title: VMS mineralisation in the Hackett River area

Carl, C., 2010-2011. Honours thesis, Lakehead University
Title: Mafic dikes of the Sibley peninsula, Ontario

Flank, S., 2010-2011. Honours thesis, Lakehead University
Title: Petrology and geochemistry of the Hele intrusion

Cundari, R., 2009-2010. Honours thesis, Lakehead University
Title: Geology of the Rove basalts, Devon Township

Pulchalski, R., 2009-2010. Honours thesis, Lakehead University
Title: Geology of Riverdale sill, Thunder Bay

Hackner, A., 2009-2010. Honours thesis, Lakehead University
Title: Chromite mineralization in the McFaulds Lake Area

Kyne, R., 2008-2009. Honours thesis, Lakehead University
Title: Clay alteration at the Ixhuatan porphyry deposit, Mexico

Siemieniuk, S., 2008-2009. Honours thesis, Lakehead University
Title: Geology and gold mineralization in the Kenora area

Henderson, A., 2007-2008. Honours thesis, Lakehead University
Title: Geology and mineralisation of the North Spirit Lake greenstone belt

Rinne, M., 2006-2007. Honours thesis, Lakehead University
Title: Petrography and Genesis of the Big Lake Ultramafic Complex and Associated PGE Mineralization, Marathon, Ontario.

Secord, S., 2006-2007. Honours thesis, Lakehead University
Title: The petrology and geochemistry of the Grassy Pond Sill.

Kowalczyk, B., 2006-2007. Honours thesis, Lakehead University
Title: The geochemistry and petrology of the Moose Lake Porphyry Complex and Feldspar Porphyry dike at the Hemlo gold deposit, Marathon, Ontario.

Lane, C., 2004-2005. Honours thesis, Lakehead University
Title: The geochemistry and petrology of the Rabbit Islands Breccia, North Central Lake Nipigon

Richardson, A., 2002-2003. Honours thesis, Lakehead University
Title: Pass Lake Formation sediment provenance

Metsaranta, R., 2002-2003. Honours thesis, Lakehead University
Title: Preliminary results of geochemical sampling from the Mesoarchean Balmer assemblage, Birch-Uchi greenstone belt.

Gilbert, S. 2001-2001, B.Sc. (Hons), University of Tasmania
Title: Mineralogical and chemical changes in hardpan layers within tailings dams at the Renison Bell Tin Mine, Western Tasmania