

**University of Toronto Archives
and Record Management Services**



Derek York fonds

B2018-0012

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University of Toronto Archives and Record Management Services

B2018-0012

Derek York

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Biographical sketch¹

Professor emeritus Derek York (1936-2007) was born on August 12, 1936 in Normanton, Yorkshire, England. He attended Oxford University, graduating with a B.A. in Physics in 1957 and a PhD in Earth Science in 1960. During his time as a graduate student, York worked with physicist Ken Mayne to establish the first potassium-argon lab in the UK. In his final year of graduate school, York met distinguished Toronto physicist Tuzo Wilson at a departmental colloquium. The meeting clearly had an impact on York as he joined the University of Toronto physics faculty later that year as a Lecturer, moving to Assistant Professor in 1962, Associate Professor in 1966, and full Professor in 1972. Prof. York also acted as chair of the department for a time (1992-1997) and held the inaugural J. Tuzo Wilson Professor of Geophysics position from 1995-2000.

Prof. York's research focused primarily on potassium-argon dating, thermochronometry, meteoroid impact dating, and the chronology of human evolution. During his time at U of T, the U of T Geochronology lab became known as a leader in the field of $^{40}\text{Ar}/^{39}\text{Ar}$ potassium-argon dating. It was at this lab that Prof. York and his colleagues first used lasers to extract argon from samples in the 1980s. Their later development of one of the world's first extraction lines which enabled data to be collected over the course of a 24 hour day, along with the use of a gas purification system, mass spectrometer, and unattended operation of the laser changed the way Prof. York and his colleagues worked, allowing them to focus their energies on more creative ideas.

In addition to his research activities, Prof. York also taught several courses in physics and geophysics and sat on various committees during his time at U of T. Many of his students went on to establish $^{40}\text{Ar}/^{39}\text{Ar}$ labs around the world. In terms of committees, Prof. York sat on several, both as chairman and member. These committees included: Welsh Lectures in Physics Committee (1979-1982), Department Council, Department of Physics, University of Toronto (1980-1981), University of Toronto Research Board (1984-1985), Graduate Students Admissions Committee (1988-1991), and the University Grievance Committee.

Outside of U of T, Prof. York participated in several committees and professional associations, including the NRC Sub-Committee for Isotope Studies and Geochronology (acting as Chairman from 1967-1973) and the NRC Associate Committee for Geodesy and Geophysics (1970-1973). He was also the foreign principle investigator for NASA during the Apollo missions to the moon. In addition to the numerous articles Prof. York authored or co-authored, he also wrote several books, including *The Earth's Age and Geochronology* with R.M. Farquhar and *In Search of Lost Time* (published in 1997). These books, along with his 70+ articles in *The Globe and Mail*, ensured that Prof. York was a sought after expert in his field.

¹ This sketch is drawn from Paul R. Renne. "Derek York (1937-2007)," *Geophysicists*, 89 (2008): 50-51., from Judith Knelman. "Derek York," *Canadian Encyclopedia* (2013), and from Derek York's CV.

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Biographical sketch²

Over the course of his career, Prof. York's work won him numerous awards and honours. He was a fellow of the Royal Society of Canada (1985), the American Geophysical Union (1995), and the Geochemical Society and the European Association for Geochemistry (1997). In addition to this, Prof. York received the Past President's Medal of the Geological Association of Canada (1985), the Bancroft Award of the Royal Society of Canada (1986), the Sandford Fleming Medal of the Royal Canadian Institute (1996), and the Canadian Association of Physicists' Lifetime Achievement Award (2005). Prof. York passed away on August 9, 2007 and is survived by his wife Lydia and son Link.

Scope and content

1950-2014

1.2m of textual material, graphic material, and publications (12 boxes)

67 photographs

34 5.25 inch floppy disks

Personal records of Derek York, professor emeritus of physics at the University of Toronto. Included are mass spectrometer log books and the world's first mass spectrometer manual; laser manual for the earliest commercially available high-powered laser; instruction manuals, laboratory notes, argon geochronology laboratory reports; Pat Smith's lab books; sample maps, photographs, offprints and articles; contracts and contract reports; research binder on birds; other research binders, including some with Pat Smith and also some of the latter's lab books; press clippings about Professor York; floppy discs. Digital files on floppy disks are unprocessed and not available for researcher use at this time. Please contact the Archives for more information.

Access: Open

² This sketch is drawn from Paul R. Renne. "Derek York (1937-2007)," *Geophysicists*, 89 (2008): 50-51., from Judith Knelman. "Derek York," *Canadian Encyclopedia* (2013), and from Derek York's CV.

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Series 1: Personal/biographical

1994, 1998

0.02m of textual records

14 photographs

This series contains material relating to Prof. York's life. It includes a curriculum vitae from 1998 and a copy of the U of T National Report on Derek York and his work with laser probe argon-argon dating.

Accession/box(file)	Description	Date(s)
B2018-0012/001(01)	Derek York with Grenville Turner, Stephen Moor bath	1994
B2018-0012/001(02)	Curriculum vitae, April 1998	1998
B2018-0012/001(03)	U of T National Report: Things large and small. Paragraph on Derek York and laser probe argon-argon dating technique	n.d.
B2018-0012/ 001P (01)	Photos of Derek York and colleagues in lab	n.d.

Series 2: Manuscripts & publications

1965-2006

0.16m of textual records, publications

This series documents the writing activities of Professor York in terms the publication of papers in scholarly journals. Files contain correspondence, and notes, as well as drafts of articles and unpublished manuscripts. The arrangement is chronological.

For a detailed listing of this series, see Appendix 1, Series 2: Manuscripts & publications

Accession/Box(file)	Dates
B2018-0012/001(04)-(39)	1965-1992
B2018-0012/002(01)-(20)	1992-2006

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Series 3: U of T activities

1966, 1982

0.08m of textual records

This series contains material relating to two PhD theses Prof. York supervised during his time at the University of Toronto.

Accession/box(file)	Description	Date(s)
B2018-0012/002(21)	Studies in Potassium-Argon Dating by Robert M. Macintyre. PhD thesis supervised by Derek York	1966
B2018-0012/002(22)	Studies in Potassium-Argon Dating by Robert M. Macintyre. PhD thesis supervised by Derek York	1966
B2018-0012/002(23)	⁴⁰ Ar- ³⁹ Ar Dating of Melt Rock from Impact Craters by Richard J. Bottomley. PhD thesis supervised by Derek York	1982
B2018-0012/002(24)	⁴⁰ Ar- ³⁹ Ar Dating of Melt Rock from Impact Craters by Richard J. Bottomley. PhD thesis supervised by Derek York	1982

Series 4: Addresses

1997

0.02m of textual records

This series contains material relating to Prof. York's addresses. Included are research materials, slides, and drafts.

Accession/box(file)	Description	Date(s)
B2018-0012/002(25)	Chen, Y., Smith, P.E., Evensen, N.M., York, D. "Towards Calibrating the Recent Time Scale: ⁴⁰ Ar/ ³⁹ Ar Dating of the Wilson Creek Beds Mono Basin, California" slides	n.d.
B2018-0012/002(26)	Hu, Q., Evensen, N.M., Smith, P.E., York, D. "An ⁴⁰ Ar- ³⁹ Ar Laser Probe Reconnaissance of Proterozoic Sediments from the Canadian Shield" Moorbath Festschrift, Precambrian Geology research materials, drafts	1997

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Series 5: Research

1950-2013

0.92m of textual records

53 photographs

34 5.25 inch floppy disks

This series contains material relating to Prof. York's research activities. It includes experiment notes, schemas, lab data, and notes relating to various York publications and topics. Also included are reports, contracts, correspondence, and lab data relating to the U of T Geochronology Lab's commercial work. Also included are 34 5.25 floppy disks but the digital files are unprocessed and not available for researcher use at this time. Please contact the Archives for more information.

For a detailed listing of this series, see Appendix 2, Series 5: Research Materials

Accession/Box(file)	Dates
B2018-0012/002(27)-/003	1950-1966
B2018-0012/004, /010	1966-1991
B2018-0012/005	1973-1982
B2018-0012/006, /001P(02)	1987-1995
B2018-0012/007, /001P(03)	1991-1997
B2018-0012/008	1996-2000
B2018-0012/009	1998-2013
B2018-0012/001Art	[1998-2013?]

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Appendix 1, Series 2: Manuscripts & publications

Accession/box(file)	Description	Date(s)
B2018-0012/001(04)	Farrar, E. MacIntyre, R.M. "A Simple Mass Spectrometer for Analysis of Argon at Ultra-High Vacuum." Paper presented at the 12 th Annual E 14 Meeting on Mass Spectrometry at Montreal Organised by the ASTM Committee	n.d.
B2018-0012/001(05)	Hayatsu, A., York, D., Farquhar, R.M., Gittins, J. "Significance of Strontium Isotope Ratios in Theories of Carbonatite Genesis" <i>Nature</i> , 207 (1965): 625-626.	1965
B2018-0012/001(06)	Harris, P.M., Farrar, E., MacIntyre, R.M., York, D. "Potassium-Argon Age Measurements on Two Igneous Rocks from the Ordovician System of Scotland" <i>Nature</i> , 205, 4969 (1965): 352-353.	1965
B2018-0012/001(07)	"Least Squares Fitting of a Straight Line." <i>Canadian Journal of Physics</i> , 44, 5 (1966): 1079-1086.	1966
B2018-0012/001(08)	"The Best Isochron" <i>Earth and Planetary Science Letters</i> , 2 (1967): 479-482	1967
B2018-0012/001(09)	"Least Squares Fitting of a Straight Line with Correlated Errors." <i>Earth and Planetary Science Letters</i> 7, 1 (1969): 320-324	1969
B2018-0012/001(10)	York, D., Berger, G.W. " ⁴⁰ Ar- ³⁹ Ar age determinations on nepheline and basic whole rocks." <i>Earth and Planetary Science Letters</i> , 7, 4 (1970): 333-336	1970
B2018-0012/001(11)	York, D., Yanase, Y. and Berger, G.W. "Determination of Geological Time with a Nuclear Reactor and a Mass Spectrometer" <i>Proc. NATO Adv. Study Inst. On Activation Analysis in Geochemistry and Cosmochemistry</i> , Kjeller, Norway, ed. A.O. Brunfelt and E. Steinners (1970): 419-422.	1970
B2018-0012/001(12)	"Recent Developments in Potassium-Argon Dating" <i>Comments on Earth Sciences Geophysics</i> , 1, 2 (1970): 47-53	1970
B2018-0012/001(13)	York, D., Doyle, R.J. "Commentary on the Least Squares Cubic Computer Program"	1971
B2018-0012/001(14)	"Evolution of Triple Junctions" <i>Nature</i> , 244 (1973): 341-342	1973
B2018-0012/001(15)	"A Graphical Approach to Dispersion" draft	1974

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Appendix 1, Series 2: Manuscripts & publications

Accession/box(file)	Description	Date(s)
B2018-0012/001(16)	"Evolution of Triple Junctions" <i>Canadian Journal of Earth Sciences</i> , 12, 3 (1975): 516-519	1975
B2018-0012/001(17)	Mak, E.K., York, D., Grieve, R.A.F., Dence, M.R. "The Age of the Mistasin Lake Crater, Labrador, Canada." <i>Earth and Planetary Science Letters</i> , 31 (1976): 345-357. Early drafts, notes	n.d.-1976
B2018-0012/001(18)	Smith, P.E., Evensen, N.M., York, D. "Single-grain ^{40}Ar - ^{39}Ar Ages Reveal the Secret Life Span of Glauconies: Implications for the Geologic Time-Scale." Research materials, correspondence, drafts	1977
B2018-0012/001(19)	Smith, P.E., Evensen, N.M. "Single-grain ^{40}Ar - ^{39}Ar Ages Reveal the Secret Early Lives of Glauconies: Implications for the Geologic Time-Scale." Research materials, correspondence, drafts	1977-1978
B2018-0012/001(20)	Bottomley, R.J., York, D., Grieve, R.A.F., " $^{40}\text{Ar}/^{39}\text{Ar}$ Ages of Scandinavian Impact Structures: I Mien and Siljan." <i>Contributions to Mineralogy and Petrology</i> , 68 (1978): 79-84	1978
B2018-0012/001(21)	Hanes, J.A., York, D. "A detailed $^{40}\text{Ar}/^{39}\text{Ar}$ age study of an Abitibi dike from the Canadian Superior Province." <i>Canadian Journal of Earth Science</i> , 16, 5 (1979): 1060-1070.	1979
B2018-0012/001(22)	Berger, G.W., York, D. " $^{40}\text{Ar}/^{39}\text{Ar}$ dating of multicomponent magnetizations in the Archean Shelley Lake granite, northwestern Ontario." <i>Canadian Journal of Earth Sciences</i> , 16, 10 (1979): 1933-1941.	1979
B2018-0012/001(23)	Berger, G.W., York, D. "Reinterpretation of the North American apparent polar wander curve for interval 800-1500 Ma." <i>Canadian Journal of Earth Sciences</i> , 17, 9 (1980): 1229-1235.	1980
B2018-0012/001(24)	York, D., Yanase, Y., Hall, C.M., Hanes, J., Kenyon, W.J. "Laser Dating of Terrestrial Minerals with a continuous laser" <i>Geophysical Research Letters</i> , 8, 11 (1981): 1136-1138.	1981

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Appendix 1, Series 2: Manuscripts & publications

Accession/box(file)	Description	Date(s)
B2018-0012/001(25)	Berger, G.W., York, D. " ⁴⁰ Ar/ ³⁹ Ar dating of the Thanet Gabbro, Ontario: looking through the Grenvillian metamorphic veil and implications for paleomagnetism." <i>Canadian Journal of Earth Sciences</i> , 18, 2 (1981): 266-273	1981
B2018-0012/001(26)	York, D., Masliwec, A. Kuybida, P., Hall, C.M., Kenyon, W. J., Hanes, J.A., Spooner, E.T.C., Scott, S.D. "Ontario Geoscience Research Grant Program, Grant No. 62 The Direct Dating of Ore Minerals" <i>Ontario Geological Survey</i>	1983
B2018-0012/001(27)	Lopez-Martinez, M., York, D., Hall, C.M., Hanes, J.A. "The oldest Reliable ⁴⁰ Ar/ ³⁹ Ar Ages on Terrestrial Rocks: Barberton Mountain Komatiites" <i>Nature</i> , 307 (1984): 352-354.	1984
B2018-0012/001(28)	"Cooling Histories from ⁴⁰ Ar/ ³⁹ Ar Spectra: Implications for Precambrian Plate Tectonics. <i>Annual Review of Earth and Planetary Sciences</i> , 12 (1984): 384-409	1984
B2018-0012/001(29)	Hanes, J.A., York, D., Hall, C.M. "An ⁴⁰ Ar/ ³⁹ Ar geochronological and electron microprobe investigation of an Archean pyroxenite and its bearing on ancient atmospheric compositions." <i>Canadian Journal of Earth Sciences</i> , 22 (1985): 947-958	1985
B2018-0012/001(30)	York, D., Lopez-Martinez, M. "The Two-Faced Mica." <i>Geophysical Research Letters</i> , 13, 9 (1986): 973-975	1986
B2018-0012/001(31)	Glass, B.P., Hall, C.M., York, D. " ⁴⁰ Ar/ ³⁹ Ar Laser-Probe Dating of North American Tektite Fragments from Barbados and the Age of Eocene-Oligocene Boundary." <i>Chemical Geology</i> , 59 (1986): 181-186	1986
B2018-0012/001(32)	Bottomley, R., York, D. "Age Measurement of the Montagnais Impact Crater." <i>Geophysical Letters</i> , 15, 12 (1988): 1409-1412	1988
B2018-0012/001(33)	Onstott, T.C., Hall, C.M., York, D. " ⁴⁰ Ar/ ³⁹ Ar Thermochronometry of the Imataca Complex, Venezuela." <i>Precambrian Research</i> , 42 (1989): 255-291	1989

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Appendix 1, Series 2: Manuscripts & publications

Accession/box(file)	Description	Date(s)
B2018-0012/001(34)	Layer, P.W., Kröner, A., McWilliams, M., York, D. "Elements of the Archean thermal history and apparent polar wander of the eastern Kaapvaal Craton, Swaziland, from single grain dating and paleomagnetism." <i>Earth and Planetary Science Letters</i> , 93 (1989): 23-34.	1989
B2018-0012/001(35)	Özdemir, Ö, York, D. " ⁴⁰ Ar/ ³⁹ Ar Laser Dating of a Single grain of magnetite" <i>Tectonophysics</i> , 183 (1990): 1-13.	1990
B2018-0012/001(36)	Bottomley, R.J., York, D., Grieve, R.A.F. " ⁴⁰ Argon- ³⁹ Argon Dating of Impact Craters" <i>Proceedings of the 20th Lunar and Planetary Institute</i> (Houston, 1990): 421-431	1990
B2018-0012/001(37)	Wright, N., Layer, P.W., York, D. "New Insights into Thermal History from Single Grain ⁴⁰ Ar/ ³⁹ Ar Analysis of Biotite" <i>Earth and Planetary Science Letters</i> , 104 (1991): 70-79	1991
B2018-0012/001(38)	de Ronde, C.J., Hall, C.M., York, D., Spooner, E.T.C. "Laser step-heating ⁴⁰ Ar/ ³⁹ Ar Age Spectra from Early Archean (3.5 Ga) Barberton Greenston Belt Sediments: A Technique for Detecting Crypto Tectono-Thermal Events." <i>Geochimica et Cosmochimica Acta</i> , 55 (1991): 1933-1951	1991
B2018-0012/001(39)	Layer, P.W., Kröner, A., York, D. "Pre-3000 Ma Thermal History of the Archean Kaap Valley Pluton, South Africa" <i>Geology</i> , 20 (1992): 717-720	1992
B2018-0012/002(01)	Özdemir, Ö, York, D. " ⁴⁰ Ar/ ³⁹ Ar Laser Dating of Biotite Inclusions in a Single Crystal of Magnetite." <i>Geophysical Research Letters</i> , 19 (1992): 1799-1802	1992
B2018-0012/002(02)	Thomas, A.R., Dahl, W.D., Hall, C.M., York, D. " ⁴⁰ Ar/ ³⁹ Ar Analyses of Authigenic Muscovite, Timing of Stylolitization, and Implications for Pressure Solution Mechanisms: Jurassic Norphlet Formation, Offshore Alabama." <i>Clay and Clay Minerals</i> , 41 (1993): 269-279	1993
B2018-0012/002(03)	"The Earliest History of the Earth" <i>Scientific American</i> (1993): 90-96.	1993

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Appendix 1, Series 2: Manuscripts & publications

Accession/box(file)	Description	Date(s)
B2018-0012/002(04)	Smith, P.E., Schandl, E.S., York, D. "Timing of Metasomatic Alteration of the Archaen Kidd Creek Massive Sulphide Deposit, Ontario Using $^{40}\text{Ar}/^{39}\text{Ar}$ Laser Dating of Single Crystals of Fuchsite." <i>Economic Geology</i> , 88 (1993): 1636-1642	1993
B2018-0012/002(05)	Smith, P.E., York, D., Easton, R.M., Özdemir, Ö. "A Laser $^{40}\text{Ar}/^{39}\text{Ar}$ Study of Minerals Across the Grenville Front: Investigation of Reproducible Excess Ar Patterns" <i>Canadian Journal of Earth Sciences</i> , 31 (1994): 808-817	1994
B2018-0012/002(06)	Hu, Q., Smith, P.E., Evensen, N.M., York, D. "Lasing in the Holocene: Extending the $^{40}\text{Ar}/^{39}\text{Ar}$ Laser Probe Method into the Carbon-14 Age Range." <i>Earth and Planetary Science Letters</i> , 123 (1994): 331-336	1994
B2018-0012/002(07)	Irving, E., Baker, J., Wright, N., Yorath, C.J., Enkin, R.J., York, D. "Magnetism and Age of the Porteau Pluton, Southern Coast Belt, British Columbia: Evidence for Tilt and Translation." <i>Canadian Journal of Earth Sciences</i> , 32 (1995): 380-392	1995
B2018-0012/002(08)	Chen, Y., Smith, P.E., Evensen, N.M., York, D., Lajoie, K.R., "The Edge of Time: Dating Volcanic Ash Layers with ^{40}Ar - ^{39}Ar Laser Probe." <i>Science</i> , 274 (1996): 1176-1178	1996
B2018-0012/002(09)	"Geological Dating" <i>The Canadian Encyclopedia</i>	1996
B2018-0012/002(10)	Smith, P.E., Evensen, N.M., York, D., Odin, G.S., "Single-grain argon-argon ages of glauconies: Implications for the geological time-scale and global sea-level variations." <i>Science</i> , 279(1998): 1517-1519. Draft	1997
B2018-0012/002(11)	de Wit, M., van Hoof, T., Berg, H., York, D., White, S., Langereis, C. "Paleomagnetic investigations within and around the 3.2-3.5 Ga Barberton greenstone belt, South Africa: Paleomagnetic tests for Early Archean tectonics." Unpublished	1997

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Appendix 1, Series 2: Manuscripts & publications

Accession/box(file)	Description	Date(s)
B2018-0012/002(12)	Bottomley, R., Grieve, R., York, D., Masaitas, V. "The age of the Popigai impact event and its relation to events at the Eocene/Oligocene boundary." <i>Nature</i> , 388 (1997): 365-368	1997
B2018-0012/002(13)	"What's Read in the Bones" <i>The Globe and Mail</i> . Week of February 26 199-	199-
B2018-0012/002(14)	Smith, P.E., Evensen, N.M., York, D. "Sedimentary Pyrite ⁴⁰ Ar- ³⁹ Ar Isochrones: Exploiting a Natural Clay Time-Capsule in Shale"	200-
B2018-0012/002(15)	"Rock Stars: J. Tuzo Wilson" <i>Geological Society of America Today</i> . September 2001	2001
B2018-0012/002(16)	Smith, P.E., Evensen, N.M., York, D. "Single-crystal ⁴⁰ Ar- ³⁹ Ar dating of pyrite: No fool's clock" <i>Geology</i> , 29, 5 (2001): 403-406	2001
B2018-0012/002(17)	Smith, P.E., Evensen, N.M., York, D. (2001)"Whispers of Time: Lowest Temperature Regions of Argon Age Spectra" <i>AGU Fall Meeting Abstracts</i>	2001
B2018-0012/002(18)	York, E., Evensen, N. "Unified equations for the slope, intercept, and standard errors of the best straight line." <i>American Journal of Physics</i> , 72, 3 (2004): 367-375	2004
B2018-0012/002(19)	Smith, P.E., Evensen, N.M., York, D., Moorbath, S. "Oldest reliable terrestrial ⁴⁰ Ar- ³⁹ Ar age from pyrite crystals at Isua West Greenland" <i>Geophysical Research Letters</i> , 32, L21318 (2005): 1-4	2005
B2018-0012/002(20)	Reis, N.J., Szatmari, P., Wanderley Fihlo, J.R., York, D., Evensen, N.M., Smith, P.E. "Dois Eventos De Magmatismo Máfuco Mesozóico Na Fronteira Brasil-Guiana, Escudo Das Guianas: Enfoque à Região do Rifte Tacutu-North Savannas" <i>Trabalhos apresentados em eventos</i>	2006

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Appendix 2, Series 5: Research

Accession/box(file)	Description	Date(s)
B2018-0012/002(27)	Metropolitan-Vickers Mass Spectrometer MS2 Schemas	1950
B2018-0012/003(01)	Metropolitan-Vickers Mass Spectrometer MS2 Instruction Manual	1952
B2018-0012/003(02)	90° Metropolitan Vickers Mass Spectrometer li instrumentation book	1955-
B2018-0012/003(03)	Bail Hill Carbonatites lab book	1960s?
B2018-0012/003(04)	Brazing and Welding Johnson Matthey and Mallory Ltd material	1960
B2018-0012/003(05)	Diffusion pump article, operating instructions	1960
B2018-0012/003(06)	Gas handling results book	1963-1965
B2018-0012/003(07)	Mass spectrometer log book	1963-1964
B2018-0012/003(08)	Mass spectrometer 10 log book	1963-1968
B2018-0012/003(09)	E. Farrar, M. MacIntyre lab record book	1964
B2018-0012/003(10)	Cobalt Silver Area Southeastern Sheet: Timiskaming District by the Ontario Department of Mines	1964
B2018-0012/003(11)	Cobalt Silver Area Southeastern Sheet: Timiskaming District by the Ontario Department of Mines	1964
B2018-0012/003(12)	Cobalt Silver Area Northern Sheet: Timiskaming District by Ontario Department of Mines	1964
B2018-0012/003(13)	Cobalt Silver Area: Southwestern Sheet: Timiskaming District by the Ontario Department of Mines	1964
B2018-0012/003(14)	Mass spectrometer 10 log book	1965-1966
B2018-0012/004(01)	General Electric Nuclides and Isotopes booklet, application, data	1966
B2018-0012/004(02)	Mid Atlantic Ridge Project research materials	1967-1969
B2018-0012/004(03)	Ion Repeller Voltage Adjustment lab data (graphs, notes)	1967-1972
B2018-0012/004(04)	H.F. Generator PH 1006/11/12 manual, drawings	1968
B2018-0012/004(05)	Codes of Practice for the Protection of Persons Exposed to Ionising Radiation	1969
B2018-0012/004(06)	Mass spectrometer notes	197-?
B2018-0012/004(07)	MS-1200 Digital Integration, atmospheric Argon diagrams, lab notes	1970
B2018-0012/010(01)	Derek York, W. John Kenyon lab book	1970-1981
B2018-0012/004(08)	Fusion system, fusion furnace drawings	1971
B2018-0012/004(09)	Argon-38 spike lab data	1971-1975
B2018-0012/004(10)	Pat Smith lab book	1971-1987
B2018-0012/004(11)	Laboratory notes	1972

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Appendix 2, Series 5: Research

Accession/box(file)	Description	Date(s)
B2018-0012/004(12)	Mistasin Lake research materials, correspondence	1972-1973
B2018-0012/004(13)	Irradiation reports, lab data	1972-1979
B2018-0012/004(14)	Mass spectrometer notes, diagrams, schemas	1972-1991
B2018-0012/ 005 (01)	Timmins-Kirkland Lake Geological Compilation Series: Cochrane, Sudbury and Timiskaming districts by the Ontario Division of Mines	1973
B2018-0012/005(02)	Ministry of Natural Resources. Index to published geological maps 1891-1960 (updated June 1975)	1975
B2018-0012/005(03)	Ministry of Natural Resources. Index to published geoscience maps 1961-present (updated June 1975)	1975
B2018-0012/005(04)	Ministry of Natural Resources Index to Preliminary Maps Geological Series (revised to June 1975)	1975
B2018-0012/005(05)	Ministry of Natural Resources Index to Preliminary Maps – Geochemical-Geophysical Series (revised to June 1975)	1975
B2018-0012/005(06)	Ministry of Natural Resources Index to Preliminary Maps Data Series (revised to June 1975)	1975
B2018-0012/005(07)	Experiment Schemas	1976-1978
B2018-0012/005(08)	Mass spectrometer notes, diagrams, schemas	1976-1982
B2018-0012/005(09)	Mass spectrometer 10 lab record book	1976-1984
B2018-0012/005(10)	Spectra Physics Model 171 Ion Laser Manual	1977
B2018-0012/005(11)	Pat Smith? manuscript on K-Ar and ⁴⁰ Ar/ ³⁹ Ar dating	1978?
B2018-0012/005(12)	Lab notes, irradiation sample notes	1981
B2018-0012/005(13)	Barnes Infrared Microscope correspondence, product information	1981-1982
B2018-0012/ 006 (01)	VG Isotopes Mass Spectrometer computer manual	1982
B2018-0012/006(02)	Vacuum Rebuild Project notes, drawings, invoices	1984-1985
B2018-0012/006(03)	Fusion lab sheets	1985-1986
B2018-0012/006(04)	Lindberg blank lab data	1985-1986
B2018-0012/006(05)	Lindberg Fusion System, R.F. Fusion System, MS10 procedure manuals	1986
B2018-0012/006(06)	Geological Highway Map of Northern Ontario by the Ministry of Northern Development and Mines	1986
B2018-0012/006(07)	Main Ion Pump Valve Driver installation instructions, purchase information	1987
B2018-0012/ 001P (02)	Photos of lab equipment	1987-1988
B2018-0012/006(09)	UT Lamp Controller Manual. August 1988	1988
B2018-0012/006(10)	Radiance values for Infrared Microscope data, graphs	1990

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Accession/box(file)	Description	Date(s)
B2018-0012/006(11)	Geologic Map of Yellowstone National Park by the U.S. Geological Survey	1991
B2018-0012/006(12)	Irradiation lab notes	1992
B2018-0012/006(13)	Devonian Barite lab notes	1992
B2018-0012/006(14)	Alan Hildebrand Project notes, correspondence	1992
B2018-0012/006(15)	Devonian spherule lab notes	1992
B2018-0012/006(16)	Popagai lab notes	1992
B2018-0012/006(17)	McMaster University Nuclear Reactor notes, irradiation request	1994
B2018-0012/006(18)	Electron multiplier notes, correspondence, product information	1994
B2018-0012/006(19)	Potassium-Argon calculations, notes, correspondence	1994
B2018-0012/006(20)	Mass spectrometer logbook vol. 1. April 1992-June 1995	1992-1995
B2018-0012/007(01)	Leak Data Residual Gas Analyser	1995
B2018-0012/007(02)	Glauconies research materials (notes, correspondence, etc.) [photographs removed to B2018-0012/001P(03)]	1991-1997
B2018-0012/007(03)	Mass spectrometer lab notes and diagrams	1995-1998
B2018-0012/007(04)	Mass spectrometer log book vol. 2, June 1995-September 2000	1995-2000
B2018-0012/007(05)	Mass spectrometer log book vol. 3, October 2000-April 2014	2000-2014
B2018-0012/007(06)	Kos maps, graphs, data	1996
B2018-0012/007(07)	Hyalosphenochron diagrams, notes, lab data	1996
B2018-0012/007(08)	U of T Geochronology Lab Press Clippings	1996-1997
B2018-0012/008(01)	Yiaxin Formation project research materials, correspondence	1996-1997
B2018-0012/008(02)	Research material on birds (correspondence, notes, articles)	1998-2001
B2018-0012/008(03)	Pat Smith laser lab notes	2000
B2018-0012/008(04)	Sample maps	2001-2007
B2018-0012/008(05)	Description of the Toronto Argon Geochronology Lab	2007
B2018-0012/008(06)	Carnallite research notes	2008-2010
B2018-0012/008(07)	Mass spectrometer mapping samples	2011-2013
B2018-0012/008(08)	Letter from U of T Department of Geology faculty member John regarding resting rock samples	n.d.
B2018-0012/008(09)	Edwards 'O' Rings data	n.d.
B2018-0012/008(10)	Getter lab data (notes drawings)	n.d.

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Accession/box(file)	Description	Date(s)
B2018-0012/008(11)	Vacuum Instrument Corporation. Operating and Maintenance Procedures for Ionization Gauge Control Model 34	n.d.
B2018-0012/008(12)	Derek York's writing about the U of T Geochronology Lab	n.d.
B2018-0012/008(13)	Drawings for Argon Testing Sedimentary Rock	n.d.
	Commercial Work	
B2018-0012/008(14)	U of T Geochronology Lab commercial work – Guaniamo Mining Company Ltd. Correspondence, lab data	1996
B2018-0012/008(15)	U of T Geochronology Lab commercial work – ARCO International Oil and Gas Company correspondence, lab data	1996-1997
B2018-0012/008(16)	U of T Geochronology Lab commercial work – Hong Kong Geological Survey correspondence, lab data	1998-2000
B2018-0012/009(01)	U of T Geochronology Lab contract with Petrobras (notes, correspondence, drafts)	1998-2001
B2018-0012/009(02)	Argon Geochronology Lab reports for Petrobras	1999-2000
B2018-0012/009(03)	U of T Geochronology lab commercial work invoices	1999-2002
B2018-0012/009(04)	Report, lab data for Petrobras samples	2000
B2018-0012/009(05)	U of T Geochronology lab commercial work – Departamento de Geologia, Universidad nacional de San Luis (Carlos Costa) report	2001
B2018-0012/009(06)	Petrobras reports, correspondence, research materials	2001-2002
B2018-0012/009(07)	Petrobras reports, correspondence, research material	2003-2004
B2018-0012/009(08)	TerraChron Reports to Petrobras, notes	2010-2013
B2018-0012/009(09)	PF 57/103 rock sample notes	[1998-2013?]
B2018-0012/009(10)	PF 57/10 rock sample notes	[1998-2013?]
B2018-0012/009(11)	RF1, RF-2 rock sample notes	[1998-2013?]
B2018-0012/009(12)	PF 57/49 rock sample notes	[1998-2013?]
B2018-0012/009(13)	PF 57/77 rock sample notes	[1998-2013?]
B2018-0012/009(14)	PFS 57/85 rock sample notes	[1998-2013?]
B2018-0012/009(15)	PF 57/86 rock sample notes	[1998-2013?]
B2018-0012/009(16)	PF 57/102 rock sample notes	[1998-2013?]
B2018-0012/001Art(01)	PF 57/103 rock sample	[1998-2013?]
B2018-0012/001Art(02)	PF 57/10 rock sample	[1998-2013?]

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Accession/box(file)	Description	Date(s)
B2018-0012/001Art(03)	RF1, RF-2 rock sample	[1998-2013?]
B2018-0012/001Art(04)	PF 57/49 rock sample	[1998-2013?]
B2018-0012/001Art(05)	PF 57/77 rock sample	[1998-2013?]
B2018-0012/001Art(06)	PFS 57/85 rock sample	[1998-2013?]
B2018-0012/001Art(07)	PF 57/86 rock sample	[1998-2013?]
B2018-0012/001Art(08)	PF 57/102 rock sample	[1998-2013?]