

# Lionel Harrison fonds

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# Fonds Description

**Lionel Harrison fonds.** – 1941-2008.

99cm of textual records

1 film reel (46m)

2 floppy diskettes

## Biographical Sketch

Lionel Harrison was born May 29, 1929 in Liverpool, U.K. He received his first degree in chemistry in 1949 and a doctorate in physical chemistry in 1952, both from the University of Liverpool. He worked for Imperial Chemical Industries in Ardeer, Scotland from 1952-1955 and shortly afterwards moved to Canada and began teaching at UBC, becoming an associate professor in 1963 and a full professor in 1967. In 1973 he chaired an oral exam for Thurston Lacalli's doctoral dissertation, and became interested in the chemical underpinnings of biological patterning. As well as numerous articles he published two books, *Kinetic Theory of Living Pattern*, and *How Does Life Devise Its Shapes and Sizes?* published posthumously. Additionally, Harrison was asked by CBC-TV to produce a computer simulation of the growth of *Acetabularia*, a green seaweed that grows in warm seas. He was the recipient of a research grant from the Natural Sciences and Engineering Research Council of Canada in Physical Chemistry, Especially Kinetic Theory, of Biological morphogenesis. He was a fellow of the Chemical Institute of Canada, member of the Institute of Applied Mathematics at UBC, and the Department of Botany. Harrison retired and became an emeritus professor in 1994. He died in 2008.

## Custodial History

Thurston Lacalli and David Holloway, executors of Dr. Harrison's estate, kept Harrison's papers in storage until they donated them to the University Archives in December 2011.

## Scope and Content

The fonds consists of personal and professional materials of Harrison's related to his career, including correspondence, laboratory notes, teaching notes, and manuscripts. The fonds is divided into four series: Professional Life series (1966-2008); Undergraduate and Graduate Education (1941-A); Correspondence series (1973-2002), and Poetry series (1966-1968). A film is also included, entitled *Asymmetry and Dissipation, or, Life is so Irreversible* – listed in the Archives as UBC Film # 111.

## Notes

Materials were acquired in one accrual. Further accruals are not expected.

Title based on the contents of the fonds.

File list available.

## Series Descriptions

**Professional Life.** – 1966-2008.

46cm of textual records.

1 film reel (26m)

2 floppy diskettes.

The series includes correspondence relating to articles exchanged for editing, between colleagues and advisees; applications for numerous Research Grants which summarize his various ongoing research projects; presentations that he made; and a number of Curriculum Vitae from 1966-1992.

Boxes 1-4, 6

**Undergraduate and Graduate Education.** – 1941-1976.

27cm of textual records.

This series consists of laboratory diaries, research notes, and class notes, created when Harrison was in his undergraduate and graduate years. Harrison's PhD Thesis entitled, "Studies in Catalytic Parahydrogen Conversions," is included in this series.

Box 5

**Correspondence Series.** – 1973-2002.

13 cm of textual records.

This series consists of incoming and outgoing letters of correspondence. Harrison and other correspondents would often exchange drafts of articles for review and feedback. Harrison and the correspondents discuss ongoing projects, inquire about research, and provide references for each other. Some correspondence is of personal nature.

Box 7

**Poetry Series.** – 1966-1968.

13 cm of textual records.

This series consists of drafts, correspondence, and originals, including his major poetic opus "Double Star and Other Verses."

Box 8

# File List

## BOX 1

### PROFESSIONAL LIFE

- 1-1 1984/85/87 – Correspondence, itinerary and contact information
- 1-2 Correspondence and application responses. – 1977-2002.
- 1-3 Peter Wall Institute Grant Application. – 1994-5.
- 1-4 Error Reduction Collaborative Grant Application & Axolatl Somites. -- 1994
- 1-5 NSERC Grant Application. – 1999.
- 1-6 NSERC Grant Application. – 1995.
- 1-7 Research Grants. -- 1992-3.
- 1-8 Collaborative Grant Application I Whorl, Morphogenesis, Harrison, Lacalli, Fowke/Attree, Mandoli. – April 20, 1994-95. – Note 1 slide of Picea Glauca Somatic 1 Embryos.
- 1-9 BP Ventures. – 1985-1987.
- 1-10 Study Leave. -- 1984-1985.
- 1-11 NSERC Grant Application. – 2001.
- 1-12 Research Grants. -- 1988-1989.
- 1-13 Research Grants. -- 1987-1988.
- 1-14 Research Grants. -- 1986-1987. [Letter of Intent: application for a centre of excellence]
- 1-15 Research Grants. -- 1985-1986. -- [budgets.]
- 1-16 Research Grants 1984-85. -- [application.] – [1984-1985]
- 1-17 Urgent Application PRF [Petroleum Research Fund.] -- Aug 1985.
- 1-18 NSERC Site Visits. -- 1983, 1984.

## BOX 2

- 2-1 Research Grant. – 1982-1983. – Also Merit Awards, Study Leave.
- 2-2 Research Grants. -- 1982-1983.
- 2-3 Research Grants. -- 1981-1982.
- 2-4 Research Grants. -- 1980-1981
- 2-5 Research Grants. -- 1979-1980.
- 2-6 Research Grants. -- 1978-1979.
- 2-7 Research Grants. -- 1977-1978.
- 2-8 Research Grants. -- 1976-1977.
- 2-9 Research Grants. -- 1975-1976.
- 2-10 Consciousness -philosophy of –evolution of. – 1996.

- 2-11 Stuff for Yet More Fruit Fly Papers (They Breed Like Flies). – 1989.
- 2-12 [Onset of Whorl Morphogenesis.] – [n.d.]
- 2-13 Diagrams. -- [n.d.]
- 2-14 [Reaction-diffusion modeling of normal, mutant and ...] – [n.d.]
- 2-15 [Loose Pages.] – [n.d.]
- 2-16 Computational Manifesto Revision for BioEssays. – [Includes 2 3" floppy disks.] -- July 1997
- 2-17 Computational Development. -- 1998 Version.
- 2-18 Michael's Stripes: The Pop. Version. – 1992-1993.
- 2-19 Endeavour Article. – 25 April Means 20 April 5 July 1994.
- 2-20 Oscillations & Morphogenesis (Rensing). – 1991.
- 2-21 The Computational Manifesto (Dialectical Development). – 1995-1997.
- 2-22 Drosophila Rewrites for Cell & Development. – 1989.
- 2-23 Stripes: Chem. Pays Letter. – 1991.
- 2-24 Letters to Science on Turning Structures. – 1991.
- 2-25 TCL/LGH Seminars in Develop. Biol. (Saunders) – 1991.

### BOX 3

- 3-1 A. Med. Ca/EGTA Data and Paper 1996. – [1996]
- 3-2 M.R. Imaging J. Cell Sci. 1988 – [photographic prints.] – 1988.
- 3-3 Ca-CTC Fluorescence Paper for Development. – 1988.
- 3-4 T Shock/Change Paper JTB. – 1984.
- 3-5 Protoplasma Paper (1981) & Earlier Attempts at letters to Nature, Berlin Paper. – 1981.
- 3-6 Qingdao Symposium Paper. – 1995-6 well, 1998.
- 3-7 Kinetically Coop Models – Boundary Movement for Can. J. Chem. Jim Morrison Issue. – 1987.
- 3-8 Letter to Nature, Imaging. – [n.d.]
- 3-9 Coupling Prepattern <math>\leftrightarrow</math> Morphogenesis Harrison & Kolar. – 1987.
- 3-10 Micrasterias Time Scale Paper Can. J. Bo. – 1987.
- 3-11 Math 534B/560. -- March 1991.
- 3-12 SFU Centre for Experimental and Constructive Mathematics 1995
- 3-13 Library [Models for Embryo Pattern Formation. – 1994.]
- 3-14 List of UBC Talks. – [2003.]
- 3-15 [Symposium at University of Toronto Notes. – 1983.]
- 3-16 [4 presentations.] -- [1988-1990.]
- 3-17 Meetings. -- 1992/3.

## BOX 4

- 4-1 Curriculum Vitae. -- 1966-1992.
- 4-2 Curriculum Vitae. -- 1966-1992.
- 4-3 Fan Mail on Complexity Review. -- [1993]
- 4-4 Book Reviews by L.G. Harrison. -- [1983-1995]
- 4-5 I.A.M. Math-Biology Programme. -- 1989.
- 4-6 Oral Examination for the Degree of Philosophy reports. -- 2002-2003.

(continued)

## BOX 5

### UNDERGRADUATE AND GRADUATE EDUCATION

- 5-1 Studies in Catalytic Parahydrogen Conversions / L.G. Harrison. -- 1952.
- 5-2 UBC Department of Extension Photograph, Vancouver, BC -- [ca. 1969.]
- 5-3 Acceptance letter into the Chemical Institute of Canada. -- [Februaury 1967.]
- 5-4 Certificate of the Chemical Institute of Canada Fellowship. -- [1976.]
- 5-5 Vancouver Sun Article -- July 13, 1963.
- 5-6 [Lecture Notes -- divided by course.] -- [n.d.]
- 5-7 [Lecture Notes -- divided by course.] -- [n.d.]
- 5-8 Labratory Diary [for the National Research Labratories, Ottawa] / L. G. Harrison. -- [1955.]
- 5-9 [Part 2 Higher and Honours; Practical Physical Chemistry / Lionel G. Harrison] -- [1955.]
- 5-10 [Heat.] -- [1946.]
- 5-11 [Ledger] -- [n.d.]
- 5-12 [Atomic Physics / Lionel Garrison] -- [n.d.]
- 5-13 Calculation of P.E. Surface. -- [n.d.]
- 5-14 [Eddington Cricket Problem.] -- [n.d.]
- 5-15 Colloquium Notes -- [n.d.]
- 5-16 Practical Inorganic Chemistry [Laboratory Diary.] -- [1949-1952.]



## BOX 6

### PROFESSIONAL LIFE SERIES (cont.)

- 6-1 [Film, Script, Timing] -- [1980-1986.]
- 6-2 [Film Complete Set of Frames] -- [1980-1986.]
- 6-3 [Hair Spacing] -- [1980-1986.]
- 6-4 [Film.] -- [1980-1986.]
- 6-5 [CBC-TV.] -- [1980-1986.]

## BOX 7

### CORRESPONDENCE SERIES

- 7-1 Raymond Fink. -- [1983-1996.]
- 7-2 Mahendra Prasad. -- [1995-1997.]
- 7-3 George F. Oster. -- [1990.]
- 7-4 B. N. Nagorcka. -- [1988-1993.]
- 7-5 J. D. Murray. -- [1980, 1988.]
- 7-6 Jim A. Morrison. -- [ca.1987.]
- 7-7 [Jay] Mittenenthal. -- [1981-1988.]
- 7-8 Michael Henzinger. -- [1992-1996.]
- 7-9 [Hans] Meinhardt. -- [1988-1995.]
- 7-10 Dina Mandoli. U. of W. -- [1988-2000.]
- 7-11 MacWilliams [T. C. Lacalli.] -- [1980.]
- 7-12 Robert F. Lyndon. -- [See also file on "my stuff in textbooks and review articles."] -- [1988-1989.]
- 7-13 [Thurston] Lacalli I. -- [1973-1980.]
- 7-14 Mirek Kolar. -- [1996-2002.]
- 7-15 Tom Kirkwood. -- [See also Biometric Conference 1994.] -- [1998-2002.]
- 7-16 Leah Keshet. -- [1995.]
- 7-17 Jozef Kazmierczak. [See also Dasycladales -- Phylogeny (Files under Literature on Dasycladales)] -- 1987-1989.
- 7-18 Stuart Kauffman (Pennsylvania) Nov. 1985. -- [1977-1986.]
- 7-19 Lionel Jaffe. -- [1989.]
- 7-20 Axel Hunding. -- [1994-1996.]
- 7-21 Lewis I. Held -- Texas Tech University. -- [1990-1993.]
- 7-22 Somdota Sinha -- Hydra Modelling. -- [1979-1998.]
- 7-23 Steve Smith -- [1994.]

- 7-24 Lynn E. H. Trainor -- [1988.]
- 7-25 The Last Month of Paul Green. – 1998.
- 7-26 Paul B. Green -- [1979-1998.]
- 7-27 Edward C. Cox. -- 1987-1989.
- 7-28 Jim Butler -- [1993.]
- 7-29 Bonotto, Silvano -- [1993-2000].
- 7-30 Kathy Barton -- [1999-2000.]
- 7-31 [Peter] Barlow -- [1987.]
- 7-32 Leon Glass (McGill) [1975-1978.]
- 7-33 Etiennette Dulos Visit June 1993
- 7-34 Brian C. Goodwin Stuff on calcium Publications to Discuss in England. -- [1983-1988]

## BOX 8

### POETRY SERIES

- 8-1 Double Star and other verses / Harrison. -- [ca. 1966.]
- 8-2 Verses. -- [n.d.]
- 8-3 The Coy Le Darte Singers. -- [n.d.]
- 8-4 How the correspondence on a manuscript can get bulkier than the manuscript itself especially if the manuscript isn't much good but the author is particularly pig-headed / L. G. Swinehead [Harrison.] -- [1966-1967]
- 8-5 [Correspondence on Poems and Short Stories.] -- [n.d.]
- 8-6 Correspondence on Poetry. -- 1966-1968.
- 8-7 Verses Drafts. -- [n.d.]
- 8-8 Double Star and Other Verses by Lionel G. Harrison. -- [n.d.]
- 8-9 Poetry Drafts. -- [n.d.]
- 8-10 Poetry Drafts. -- [n.d.]
- 8-11 Double Star: A Book of Gloomy Philosophical Pomes Entirely Unsuitable for Christmas or Any Other Occasion for that Matter. -- [n.d.]