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**Donald G. Ivey**  
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## **Biographical note**

Donald Glen Ivey was born in Clanwilliam, Manitoba on February 6, 1922. He received a Bachelor of Arts degree (1944) and Master of Arts degree (1946) in physics from the University of British Columbia. From 1946 to 1949 he was a research associate at the University of Notre Dame while he studied for his Ph. D which he received in 1949. That same year he joined the University of Toronto's Department of Physics as Assistant Professor of Physics.

Prof. Ivey spent his entire professional academic career at the University of Toronto moving through the ranks from Assistant Professor to full Professor in 1963. He retired in 1987 and was appointed Professor emeritus in 1987. During his early years with the University, Dr. Ivey supervised graduate students and served as a member of the Associate Committee on High Polymer Research of the National Research Council and on the Executive (including Chairman) of the Canadian High Polymer Forum. In addition to his teaching and research activities, Prof. Ivey held a number of academic and administrative appointments including Principal of New College from 1963-1974, Associate Chairman (Undergraduate Studies) in the Department of Physics (1978-1980) and Vice-president Institutional Relations (1980-1984).

Prof. Ivey is best known for his contributions to the teaching of physics to high school students and their teachers. During the 1950's and 1960's, Prof. Ivey and his colleague, Prof. J. N. P. Hume (Computer Science, University of Toronto) prepared and presented over one hundred television programmes for the Canadian Broadcasting Corporation on various physics topics. Between 1960 and 1965 Prof. Ivey hosted a regular series of programs for the CBC series "The Nature of Things". Also during this period, he acted as Examiner and later Examiner-in-chief for the Ontario Grade 13 Physics examination.

Throughout his career Prof. Ivey spoke frequently on the study and teaching of physics at conferences, convocations, and campus events both at the University of Toronto and at other venues across the country and around the world. He published numerous articles and two textbooks on Physics. He has received numerous honours such as the Edison Award for the film "Frames of Reference" (1962), the Award of Honour from University of Notre Dame (1965), and the Robert A. Millikan Award from the American Association of Physics Teachers for "notable and creative contributions to the teaching of physics" in 1987.

## **Scope and content**

**Date range:** 1938-1994

**Extent:** 2.66m (20 boxes) of publications, textual and graphic material

**Scope and content:** This accession documents Prof. Ivey's career as professor of physics and university administrator from the time of his appointment in 1950 to his post retirement activities up to 1994. Prof. Ivey's career centred around the promotion and teaching of the science of physics both at the university level and the secondary school level. His personal and professional correspondence concerns these two activities. Other records document his work with high schools and the provincial Department of Education in developing curriculum for high school physics courses, as well as his administrative and academic responsibilities at the University of Toronto. An extensive collection of his lecture notes, problems and examinations for undergraduate courses in physics at the University of Toronto will also be found in this accession.

His activities outside the University are documented in the records relating to his television programmes prepared for the Canadian Broadcasting Corporation and other public television companies. This accession contains many complete scripts of these programs including "The Nature of Things" series in the 1960's. In addition this accession holds a very complete series of addresses including manuscripts, notes and correspondence.

While Prof. Ivey did publish articles and two textbooks on physics during his academic career, little original documentation in the form of manuscripts has survived. Correspondence on publishing may be found within his professional correspondence.

**Access:** Open

**Boxes:** B2001-0011/001-/019  
B2001-0011/001P

## **Series 1: Personal and Early Education**

**Date range:** 1941-1988

**Extent:** 0.14m (1 box) of textual records

**Scope and content:** This series contains Ivey's essays, laboratory notebooks, theses (MA and Ph.D.) produced during his university education at the University of British Columbia (BA 1944; MA 1946), and graduate studies at the University of Notre Dame in South Bend, Indiana. Personal correspondence, notices, newspaper clippings, resume and biographical information are also included relating mainly to his career as professor of physics and administrator at the University of Toronto.

**Access:** Open

**Box:** B2001-001(01) – (09)

## **Series 2: Personal and professional correspondence - General**

**Date range:** 1950-1994

**Extent:** 0.42m (3 boxes) of textual records

**Scope and content:** Personal and professional correspondence documents Ivey's activities with various professional associations relating to physics such as the American Association of Physics teachers, Canadian Association of Physicists, his numerous speaking engagements both on the UofT campus, across Canada and internationally. Also included is correspondence with colleagues both at the University of Toronto and at other institutions and organizations such as the Polymer Corporation.

**Arrangement:** Arranged alphabetically by author or organization.

**Access:** Open

**Boxes:** B2001-0011/002 A – H

B2001-0011/004 Q - W

B2001-0011/003 I - P

### **Series 3: University of Toronto**

**Date range:** 1955-1991

**Extent:** 0.28m (2 boxes) of textual records

**Scope and content:** This series contains correspondence, notes, reports, relating to Ivey's career at the University of Toronto, beginning as assistant professor of physics in 1949 through to his appointments as Principal of New College (1963-1974), Associate Chair (Undergraduate Studies) in the Department of Physics, and Vice-president Institutional relations (1980-1984). Correspondence within the Physics Department (1966-1990) is filed separately from various subject files documenting other administrative activities within the University (1955-1991). Included are files on Polyanyi Fund for science and Society (1988-1991), Joint Committee of the Toronto Board of Education and the University of Toronto, Television Committee (1955-1956), Presidential Advisory Committee on undergraduate instruction in Faculty of Arts and Science (1965), among others.

**Access:** Open

**Boxes:** B2001-0011/005 - /006

### **Series 4: Pre-university Education Activities**

**Date range:** 1950-1964

**Extent:** 0.28m (2 boxes) of textual records

**Scope and content:** Prof. Ivey was involved in the development of high school curriculum in physics, particularly Grade XIII. Within this series will be found records relating to his role as Examiner-in-chief and examiner for Ontario for the Grade XIII provincial examination. Also documented are his activities with the Physical Science Study Committee (PSSC) developing four teaching films with Dr. J. Hume. The films, produced at the PSSC studio in Boston were: Frames of Reference, Universal Gravitation, Periodic Motion, and Random Events.

**Access:** Open

**Boxes:** B2001-0011/007

B2001-0011/008 (01)-(05)

## **Series 5: Public Television**

**Date range:** 1959-1966

**Extent:** 0.38m (2 boxes) of textual records

**Scope and content:** From 1958 to 1966, Prof. Ivey, with Dr. J. N. P. Hume prepared and presented television series for the Canadian Broadcasting Corporation. Over 100 half-hour programs were produced during this period and brought the science of physics to a generation of young people. These programs included "Focus on Physics" (1958), "Two for physics" (1959), "The ideas of physics" (1962), "The nature of physics" (1963), "The constants of physics" (1966) and a series of programs for "The Nature of Things" produced from 1960-1965.

The files in this series contain correspondence, contracts, and scripts. As well scripts for "Throwing Dice" and "Measure of Man" by Lillian Andrews are also included.

**Access:** Open

**Boxes:** B2001-0011/008 (08)-(13)  
B2001-0011/009 - /010

## **Series 6: Addresses**

**Date range:** 1951-1991

**Extent:** 0.49m (4 boxes) of textual records

**Scope and content:** Prof. Ivey spoke regularly to groups, conferences, meetings, convocations and graduation dinners at both the university level and the high school level. He spoke to administrators, alumni, and students in both university and high school, and to high school and university level teachers as well as to the general public. The subject of these talks was centred frequently on his passion for the sciences, teaching and physics. Some of these addresses, like "A soupçon of science" were later published. The files in this series contain manuscripts of addresses as well as correspondence and notes. Of particular interest are files relating to his trips to England (1963-1964), China (1985), and to Caracas, Venezuela, Poland and New Zealand (1991).

**Arrangement:** Chronological arrangement.

**Access:** Open

**Boxes:** B2001-0011/011 – /014 (01) – (04)

## **Series 7: Publications**

**Date range:** 1949-1975 and undated

**Extent:** 0.07m (1 box) of textual records

**Scope and content:** This series contains offprints of articles, and correspondence by Dr. Ivey and colleagues, such as J.N.P. Hume. Also included is a file relating to his textbook, Physics Volume 1 published in 1974.

**Access:** Open

**Boxes:** B2001-0011/014 (05) – (10)

## **Series 8: Lectures**

**Date range:** 1950-1984

**Extent:** 0.56m (4 boxes) of textual records

**Scope and content:** This series consists mainly of files on the various physics courses taught by Prof. Ivey during his career at the University of Toronto. Files on each course may contain correspondence, copies of problem sets, lecture notes, tests and examinations. Some of the courses represented in this series are Engineering Physics, Engineering Science, Introduction to thermodynamics, and other undergraduate physics courses. In addition there are files on Physics 400 course taught at UBC in the summer of 1962, and a file on a Physics seminar given at McMaster University on the physics of rubber in 1953.

Lecture notes are arranged alphabetically by course name and number. Examinations are filed separately by course name.

**Access:** Open

**Boxes:** B2001-0011/015 – 018



## **Series 9: Research and teaching materials**

**Date range:** 1949-1951

**Extent:** 0.10m (1 box) of textual records

**Scope and content:** This series contains notebooks on polymer research, ca 1949, an expense book relating to his participation on the Canadian High Polymer Forum ca 1950-51 and a notebook on students made at staff meetings ca 1950-51.

**Access:** Open

**Boxes:** B2001-0011/019

## **Series 10: Photographs**

**Date range:** 1938-1981

**Extent:** 7 items (1 box) of graphic material

**Scope and content:** Photoprints documenting Dr. Donald Ivey as well as some photos collected by Ivey documenting physics at the University of Toronto.

**Access:** Open

**Boxes:** B2001-0011/001P (01) – (05)

## Appendix

### Series 6: Addresses

File number	File title	Date range
B2001-0011/011 (01)	Talks summary lists	1960-1973
B2001-0011/011 (02)-(03)	Talks –correspondence	1959-1977
B2001-0011/011 (04)	"Ultrasonics"	1953-1957
B2001-0011/011 (05)	Polymer Corporation – "The theory of rubber"	1951
B2001-0011/011 (06)	Ontario Education Association, March 31, 1959	1959
B2001-0011/011 (07)	Royal Canadian Institute "Rubber a caricature of matter"	1961-1962
B2001-0011/011 (08)	Hart House debate: "The responsibility of the scientist is solely to science".	1960
B2001-0011/011 (09)	Ontario College of Education: "Say something in algebra"	1960
B2001-0011/011 (10)	Chemical institute of Canada	1961
B2001-0011/011 (11)	Education of Society on Science – talks to high school students	1963
B2001-0011/011 (12)	Harvard-Toronto Exchange	1963
B2001-0011/011 (13)	Engineering society banquet, October 23, 1963	1963
B2001-0011/011 (14)	Thunder Bay Teachers' Institute: "Science teaching through the eyes of a scientist".	1963
B2001-0011/011 (15)	Tour of British universities	1964
B2001-0011/011 (16)	High school commencements	1963, 1965
B2001-0011/011 (17)	England –visit	1963-1964
B2001-0011/011 (18)	North York science lectures	1964
B2001-0011/011 (19)	U. of T. Alumni Ass. "A soupcon of science"	1964
B2001-0011/011 (20)	Canadian Institute on Public Affairs: "Class of '84 –its scientific education".	1964
B2001-0011/011 (21)	Federation of Women Teachers' Ass. Of Ontario	1965-1966
B2001-0011/012 (01)	NSF Summer Institute, New Mexico State University	1965
B2001-0011/012 (02)	Ontario College of Education	1965
B2001-0011/012 (03)	U. of T. Alumni –Washington branch	1965-1966
B2001-0011/012 (04)	Alberta Teachers' Association, Edmonton	1965
B2001-0011/012 (05)	Guelph Graduate Students Association Banquet	1966
B2001-0011/012 (06)	Alberta Teachers' Association, Red Deer, Alta	1966

File number	File title	Date range
B2001-0011/012 (07)	U. of T. Pharmacy Banquet, Feb. 25, 1966	1966
B2001-0011/012 (08)	Newfoundland Teachers' Association	1967
B2001-0011/012 (09)	Centennial Science Teachers' Conference	1967
B2001-0011/012 (10)	Liberal Arts Lecture series	1967
B2001-0011/012 (11)	North York Elementary Science Teachers' Association	1967
B2001-0011/012 (12)	Vancouver Institute	1967
B2001-0011/012 (13)	Ryerson Polytechnical Institute	1967
B2001-0011/012 (14)	Guidance Dialogue, U. of Ottawa	1968
B2001-0011/012 (15)	International Science Education Symposium	1968
B2001-0011/012 (16)	NSTA Convention, New York City Oct 4, 1968	1967-1968
B2001-0011/012 (17)	Althouse College, U. of Western Ontario	1968
B2001-0011/012 (18)	U. of T. Alumni – Halifax Branch	1968
B2001-0011/012 (19)	U. of T. Alumni – Southern California Branch	1968-1969
B2001-0011/012 (20)	High school commencements, Belleville C.I.	1969
B2001-0011/012 (21)	Toast to graduating class [ New College]	1969
B2001-0011/012 (22)	Humber College convocation	1969
B2001-0011/012 (23)	U. of T. Faculty of Dentistry graduation dinner	1969
B2001-0011/012 (24)	Guidance Dialogue ' 69, University of Ottawa	1969
B2001-0011/012 (25)	High School students' visit to Physics Bldg.	1970
B2001-0011/013 (01)	Dialogue'71 Lakehead University	1971
B2001-0011/013 (02)	OCUFA Conference	1971
B2001-0011/013 (03)	Engineering Science Club dinner	1971
B2001-0011/013 (04)	Canadian Association of Physicists. Ottawa. "Two for Physics"	1971
B2001-0011/013 (05)	U. of T. Alumni , Vancouver Branch	1972
B2001-0011/013 (06)	Science Teachers Association	1973
B2001-0011/013 (07)	Regional Guidance Conference, McMaster University	1973
B2001-0011/013 (08)	U. of T. Convocation addresses	1971,1974, 1983
B2001-0011/013 (09)	Canadian Association of Physicists	1975
B2001-0011/013 (10)	NSTA, Manitoba	1977
B2001-0011/013 (11)	American Association of Physics Teachers, London,Ont.	1978
B2001-0011/013 (12)	Science Teachers' Association of Ontario	1978
B2001-0011/013 (13)	Northern Ontario Science Teachers' Conference	1978
B2001-0011/013 (14)	High School Commencement, Stratford Central Secondary	1978

<b>File number</b>	<b>File title</b>	<b>Date range</b>
B2001-0011/013 (15)	Nova Scotia Association of Science Teachers, St. Mary's University, Halifax	1979
B2001-0011/013 (16)	Communication and Persuasion	1972-1973
B2001-0011/013 (17)	University of Pittsburgh: "The dynamic properties of various rubbers at high frequencies"	197?
B2001-0011/013 (18)	British Science Education Workshop, Manchester, Eng.	1979-1980
B2001-0011/013 (19)	American Association of Physics Teachers, Ont. Section	1981
B2001-0011/013 (20)	University of Saskatchewan	1982
B2001-0011/013 (21)	U. of T. Alumni – Vancouver and Victoria branches	1984
B2001-0011/013 (22)	China – Physics Education in Canada	1985
B2001-0011/013 (23)	China – "Public education about physics via TV. Thoughts of a pioneer"	1985
B2001-0011/013 (24)	China – "The making of PSSC films"	1985
B2001-0011/013 (25)	China - First year students	1985
B2001-0011/014 (01)	Millikan Lecture "Educational television – an oxymoron"	1987-1988
B2001-0011/014 (02)	New Zealand. University of Waikato "The sophisticated scientists"	1991
B2001-0011/014 (03)	New Zealand. University of Waikato – correspondence, itinerary	1990-1991
B2001-0011/014 (04)	II Inter-American Conference on Physics Education, Caracas, Ven.	1991