

University of Toronto Archives
And Records Management Services



DONALD G. IVEY PERSONAL RECORDS
B2001-0011

Garron Wells
February 20, 2002

TABLE OF CONTENTS

BIOGRAPHICAL NOTE 3

SCOPE AND CONTENT NOTE 4

SERIES 1 PERSONAL AND EARLY EDUCATION 5

SERIES 2 PERSONAL AND PROFESSIONAL CORRESPONDENCE – GENERAL 5

SERIES 3 UNIVERSITY OF TORONTO 5

SERIES 4 PRE-UNIVERSITY EDUCATION ACTIVITIES 6

SERIES 5 PUBLIC TELEVISION 6

SERIES 6 ADDRESSES 6

SERIES 7 PUBLICATIONS 7

SERIES 8 LECTURES 7

SERIES 9 RESEARCH AND TEACHING MATERIALS 7

SERIES 10 PHOTOGRAPHS 8

APPENDIX 1 9

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 Note

Records [textual; graphic; publications]; 1938-1994; 2.66 metres

Access: Open

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.

Series 4	Pre-university Education Activities	
	.28 metres; textual	1950-1964

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.

Box 007 and Box 008 (01)-(05)

Series 5	Public Television	
	.38 metres; textual	1959-1966

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.

Box 008 (08)-(13), Box 009, Box 010.

Series 6	Addresses	
	.49 metres; textual	1951 -1991

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).

Arranged chronologically. See listing in Appendix 1
Boxes 011 – 014 (01) – (04)

Series 7**Publications**

.07 metres; textual

1949-1975 and undated

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.

Box 014 (05) – (10)

Series 8**Lectures**

.56 metres; textual

1950-1984

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.

Box 015 – 018

Series 9**Research and teaching materials**

.10 metres; textual

1949-1951

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.

Box 019

Series 10 Photographs

7 items; Graphic;

1938-1981

Photoprints documenting Dr. Donald Ivey as well as some photos collected by Ivey documenting physics at the University of Toronto.

- /001P (01) Group portrait of 1954 Conference on Elastomers, American Association for the Advancement of Science (with numbered guide showing Donald G. Ivey #68)
- (02) Donald Ivey and Gordon Shorter at Royal Ottawa Golf Club dinner March 9 19?
- (03) Opening ceremony of Canadian Voices/Creation Canadienne, May 12, 1981: Honourable James Fleming, Mrs. Marvi Ricker and Dr. Ivey
- (04) Signed portrait of Sir J.J. Thomson
- (05) First Graduating class in Engineering Physics, 1938

APPENDIX 1**Series 6****Addresses**

/Box (file)	Title	Dates
/011		
(01)	Talks summary lists	1960-1973
(02)-(03)	Talks –correspondence	1959-1977
(04)	“Ultrasonics”	1953-1957
(05)	Polymer Corporation – “The theory of rubber”	1951
(06)	Ontario Education Association, March 31, 1959	1959
(07)	Royal Canadian Institute “Rubber a caricature of matter”	1961-1962
(08)	Hart House debate: “The responsibility of the scientist is solely to science”.	1960
(09)	Ontario College of Education: “Say something in algebra”	1960
(10)	Chemical institute of Canada	1961
(11)	Education of Society on Science – talks to high school students	1963
(12)	Harvard-Toronto Exchange	1963
(13)	Engineering society banquet, October 23, 1963	1963
(14)	Thunder Bay Teachers’ Institute: “Science teaching through the eyes of a scientist”.	1963
(15)	Tour of British universities	1964
(16)	High school commencements	1963, 1965
(17)	England –visit	1963-1964
(18)	North York science lectures	1964
(19)	U. of T. Alumni Ass. “A soupcon of science”	1964
(20)	Canadian Institute on Public Affairs: “Class of ’84 –its scientific education”.	1964
(21)	Federation of Women Teachers’ Ass. Of Ontario	1965-1966
/012		
(01)	NSF Summer Institute, New Mexico State University	1965
(02)	Ontario College of Education	1965
(03)	U. of T. Alumni –Washington branch	1965-1966
(04)	Alberta Teachers’ Association, Edmonton	1965
(05)	Guelph Graduate Students Association Banquet	1966
(06)	Alberta Teachers’ Association, Red Deer, Alta	1966
(07)	U. of T. Pharmacy Banquet, Feb. 25, 1966	1966
(08)	Newfoundland Teachers’ Association	1967
(09)	Centennial Science Teachers’ Conference	1967
(10)	Liberal Arts Lecture series	1967
(11)	North York Elementary Science Teachers’ Association	1967
(12)	Vancouver Institute	1967
(13)	Ryerson Polytechnical Institute	1967
(14)	Guidance Dialogue, U. of Ottawa	1968
(15)	International Science Education Symposium	1968
(16)	NSTA Convention, New York City Oct 4, 1968	1967-1968

/Box (file)	Title	Dates
/012 (cont'd)		
(17)	Althouse College, U. of Western Ontario	1968
(18)	U. of T. Alumni – Halifax Branch	1968
(19)	U. of T. Alumni – Southern California Branch	1968-1969
(20)	High school commencements, Belleville C.I.	1969
(21)	Toast to graduating class [New College]	1969
(22)	Humber College convocation	1969
(23)	U. of T. Faculty of Dentistry graduation dinner	1969
(24)	Guidance Dialogue ‘ 69, University of Ottawa	1969
(25)	High School students’ visit to Physics Bldg.	1970
/013		
(01)	Dialogue’71 Lakehead University	1971
(02)	OCUFA Conference	1971
(03)	Engineering Science Club dinner	1971
(04)	Canadian Association of Physicists. Ottawa. “Two for Physics”	1971
(05)	U. of T. Alumni , Vancouver Branch	1972
(06)	Science Teachers Association	1973
(07)	Regional Guidance Conference, McMaster University	1973
(08)	U. of T. Convocation addresses	1971,1974,
		1983
(09)	Canadian Association of Physicists	1975
(10)	NSTA, Manitoba	1977
(11)	American Association of Physics Teachers, London,Ont.	1978
(12)	Science Teachers’ Association of Ontario	1978
(13)	Northern Ontario Science Teachers’ Conference	1978
(14)	High School Commencement, Stratford Central Secondary	1978
(15)	Nova Scotia Association of Science Teachers, St. Mary’s University,	1979
	Halifax	
(16)	Communication and Persuasion	1972-1973
(17)	University of Pittsburgh: “The dynamic properties of various rubbers at high frequencies”	197?
(18)	British Science Education Workshop, Manchester, Eng.	1979-1980
(19)	American Association of Physics Teachers, Ont. Section	1981
(20)	University of Saskatchewan	1982
(21)	U. of T. Alumni – Vancouver and Victoria branches	1984
(22)	China – Physics Education in Canada	1985
(23)	China – “Public education about physics via TV. Thoughts of a pioneer”	1985
(24)	China – “The making of PSSC films”	1985
(25)	China - First year students	1985
/014		
(01)	Millikan Lecture “Educational television – an oxymoron”	1987-1988

/Box (file)	Title	Dates
/014 (cont'd)		
(02)	New Zealand. University of Waikato "The sophisticated scientists"	1991
(03)	New Zealand. University of Waikato –correspondence, itinerary	1990-1991
(04)	II Inter-American Conference on Physics Education, Caracas, Ven.	1991