

# Melvyn A Fuss Personal Records B2006-0013

By Harold Averill February, 2007

### B2006-0013

# Melvyn A. Fuss

Access: Restricted Textual, electronic records 1965-2006 1.43 m

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#### Biographical sketch

Melvyn A. Fuss was born in Toronto on 29 March 1940. He received his first two degrees from the University of Toronto: a Bachelor of Science in Mathematics and Physics in 1963 and a Master of Arts in Economics in 1965. This was followed by graduate work at the University of California, Berkeley, from which he received his doctorate in Economics in 1970.

From 1969 to 1972, Professor Fuss was first an instructor and then an assistant professor at Harvard University. He taught principles and the economics of regulation to undergraduates and, to graduates, industrial organization, introductory econometrics, advanced econometrics, and microeconomic theory. In 1972, he joined the Department of Economics at the University of Toronto where, at the undergraduate level, he specialized in microeconomic theory, industrial organization, econometrics, and the economics of regulation. At the graduate level he taught courses in microeconomics theory and econometrics. He retired in 2005 and is now Professor Emeritus.

Professor Fuss has also been active in many administrative positions at the University of Toronto. He was associate chair of the Department of Economics in 1984-1985, departmental chair from 1985-1990, and acting chair in 2000-2001. He has sat on many University committees and also on the Department of Economics tenure, recruiting and other committees. For thirty years he served as a research associate at the Institute for Policy Analysis (1972-2002); also for ten years (1992-2002) at the Centre for International Studies. Outside the University of Toronto, he has been a research associate at the National Bureau of Economic Research (USA) from 1983 to the present.

He was invited twice (1973 and 1987-1988) to be a visiting professor at the Hebrew University of Jerusalem, where he held graduate seminars in production theory and econometrics, and once (2003-2004) at the London Business School. He has also been a visiting scholar at the University of California, Berkeley (1975), at Stanford University (1975-1976) and a visiting research scholar at the Bank of Israel (1987-1988). He has also served on scholarly publishing committees, including being editor of the *Journal of Productivity Analysis* from 1992 to 1995.

Professor Fuss' research activities "have been oriented primarily toward the specification and estimation of cost functions, and the measurement and analysis of productivity. His articles have appeared in journals such as the *American Economic Review*, *Econometrica*, and the *Journal of Econometrics*...[he] is a co-editor of a two-volume treatise, *Production Economics:* A dual approach to theory and applications, considered to be a standard reference work in the analysis of production and cost functions. He has also written a book, co-authored with Leonard Waverman, entitled *Costs and productivity in automobile production: The challenge of* 

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#### Biographical sketch (continued)

Japanese efficiency...(1992). Professor Fuss has also co-edited two volumes in the Journal of Econometrics Annuals series: *The econometrics of temporary equilibrium* (with E. Berndt – 1986) and *Essays in Applied Economics* (with R. Gronau and A. Pakes – 1995)."<sup>1</sup>

Professor Fuss' has also served for many years as a consultant to businesses and governments and is a director of Law and Economics Consulting Group, Ltd. His consulting work has focussed on "the application of empirical methods to regulatory, antitrust, and liability and damage issues, especially in the telecommunications and energy sectors. He has appeared as an expert witness in proceedings at the Restrictive Trade Practices Commission, the Canadian Radio, Television and Telecommunications Commission, the Alberta Public Utilities Commission, the Ontario Energy Board, the Ontario Legislature, the Federal Communications Commission, and the Connecticut Department of Public Utilities Control." Other organizations to which he has provided advice include the Association of Canadian Distillers, Chrysler Corporation, Union Gas, the United States Postal Service and the Warner Music Group.

Professor Fuss has received a number of honours for his teaching and research. They include the American Telephone and Telegraph Post-Doctoral Fellowship in Public Utility Economics in 1971-1972, a Canada Council Leave Fellowship in 1978-1979, and a Canadian Studies Visiting Professorship, Hebrew University of Jerusalem, 1987-1988.

Professor Fuss is married, with one child.

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<sup>&</sup>lt;sup>1</sup> From a biographic sketch for academic purposes provided by Professor Fuss.

<sup>&</sup>lt;sup>2</sup> From a biographic sketch for consulting purposes provided by Professor Fuss.

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#### Scope and content note

Textual, electronic records, 1966-2006, 1.43 m.

Records of Professor Melvyn Fuss, Professor Emeritus of Economics, consisting of correspondence, memoranda, reports, lecture notes, manuscripts and publications documenting his education; his teaching at Harvard University; his administrative duties, teaching and research at the University of Toronto; and his consulting work. Fuss' research has focused on the specification and estimation of production and cost functions and the measurement and analysis of productivity, and his consulting work has been primarily in the telecommunications and energy sectors.

#### Access: Restricted.

Records designated in series and in appendices are restricted for 30 years. Permission of the donor required. All other records are open.

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#### Series 1: Correspondence

Textual, electronic records, 1971-2006, 0.03 m.

This series begins with a single biographical file, followed by correspondence. Much of Professor Fuss' professional correspondence prior to 1990 has not survived. The paper files in this series are arranged by general correspondence (including by author), followed by references, and then by comments of papers. Much of the post-1990 correspondence is in electronic format, in 'folders'. These electronic folders are listed at the end.

/Box	(file)	Description	Date(s)
/001	(01)	Biographical	1992-2006
	(02)	Correspondence: Arie Bregman – Haim Regev	
			1999-2003
	(03) $-(05)$	Correspondence: General; Mohmoud El Jafari;	
	` , ` ,	Vinrod K. Gupta	1971-1995
	(06)	National Bureau of Economic Research	1991-2004
	(07) $-(09)$	Letters of reference	1972-2001
	(10) $-(11)$	Referees of papers by Erwin Diewert and George	
	` , ` ,	Starancjak	1990-1995
	(12)	Referee of paper by Charles Hulten, et al.	2000
	(13)	Referee, grant application of Gary Naigle	1998
CD #4	Electronic	'Recommd' file: recommendations, references, etc.	1992-1996
	files	,	
CD #4	Electronic	'Referee' file: Referee of papers written by others,	
	Files	including correspondence and reports	1990-2004
CD #5	Electronic	Folder: Students – Graduate. References for students	
	Files	applying to Princeton, Yale, Columbia and Harvard	
		universities	2004
	Electronic	Folder: Students – Undergraduate. Letters of	
	files	reference	2003-2005
	11105	reference	2003 2003

**Access:** Restricted. The letters of reference, recommendations, and evaluations in /001 (07) – (09) and on compact discs #4 and #5 are restricted for 30 years.

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Series 2: Education

Textual, 1966-1970, 0.04 m.

This series consists of two files relating to Fuss' doctoral studies at University of California, Berkeley, between 1966 and 1970. They contain a term paper from Economics 241B (1966) and a copy of his doctoral thesis, 'The time structure analysis of technology: an empirical analysis of the putty-clay hypothesis' (1970).

Access: Open

Box 001, files 14 and 15

#### Series 3: Administrative files, University of Toronto

Textual, electronic records, 1969-2006, 0.04 m

This series begins with a few paper files relating to the activities of the Department of Economics, including Fuss' employment (1971-1984), recruiting, external reviews, the Department's economic plan, and two reports of the chair (1993, 1994). Most of the administrative files, though, are in electronic format. as e-mail, a general listing of which is found in Appendix 1. They consisting primarily of correspondence, memoranda and reports of an administrative nature after Professor Fuss stepped down as chair of his department in 1990 (he was acting chair in 2000-2001) and continuing through 2006 (compact disc #2). There are also a number of electronic files on student appeals, Fuss' sabbatical in 1993-1994, and his trip to Israel in 1997 (compact disc #4), and e-mail files (compact disc #5), 2000-2005, grouped in folders and sub-folders under the following categories: 'Chair memos' [by the chair of the Department of Economics], and files on 'Computing', 'Economics' and 'Recruiting'.

**Access:** Restricted. See Appendix 1 for details.

For a detailed listing of the contents of this series, see Appendix 1.

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#### **Series 3: Administrative files, University of Toronto**

/Box	(file)	Description	Date(s)
/001	(16) –(23)	University of Toronto. Administrative files	1971-2006
CD #2	Electronic	'Administration and recruiting, 1990 – 4 May 2006':	
	files	Correspondence, memoranda, and reports	1990-2006
CD #4	Electronic	Folder: 'Correspondence: Dept Eco' [University of	
	Files	Toronto]	1990-2006
CD #5	Electronic	'Fuss e-mail files'. Folders: 'Chair memos', 'Computing',	
	Files	'Economics' and 'Recruiting', most with sub-folders	2000-2005

#### Series 4: Teaching files

Textual, electronic records, 1969-2005, 0.78 m

This series focuses on Professor Fuss' teaching career, almost entirely at the University of Toronto, though there are three files on courses he taught at Harvard University between 1969 and 1972. The files contain memoranda and correspondence, notes, course outlines, lecture notes, problem sets, questions for tests and examinations, and some anonymous course evaluations. References to student marks have not been retained. This portion of the series ends with a number of electronic files.

At Harvard Professor Fuss taught principles and the economics of regulation at the undergraduate level and industrial organization, introductory econometrics, advanced econometrics, and microeconomic theory at the graduate level. The surviving files in this series are for the undergraduate course on business organization and public policy and the untitled graduate courses 2210A and 2240A.

The series continues with courses given at the Erindale campus and the St. George campus of the University of Toronto. At the undergraduate level he taught courses in microeconomic theory, industrial organization, econometrics, and economics of regulation. At the graduate level he taught microeconomics theory and econometrics. Included in these are lecture notes given to Professor Fuss by Daniel McFadden at the University of California, Berkeley (where Fuss took his doctorate), and Dale Jorgensen at Harvard University.

Most of the files are in paper format, but there are some electronic files, partly in the form of e-mail. The arrangement is by course number within each institution.

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#### **Series 4: Teaching files**

Access: Open

For a listing of the contents of this series, see Appendix 2.

/Box	(file)	Description	Date(s)
/001	(24) –(27)	Harvard University. Teaching files. Courses 261,	
		2010A, 2040A	1969-1971
/002		University of Toronto. Teaching files. Courses.	
		Economics 206, 312 and 326	1973-1997
/003		University of Toronto. Teaching files. Courses.	
		Economics 326 and 327	1977-2003
/004		University of Toronto. Teaching files. Courses.	
		Economics 327, 352, 410/2404	1972-2005
/005		University of Toronto. Teaching files. Courses.	
		Economics 418/2404 and 2020	1965-1997
/006		University of Toronto. Teaching files. Courses.	
		Economics 2020	1975-1999
/007	(01) $-(24)$	University of Toronto. Teaching files. Courses.	
		Economics 2020, 2030, 2400, 2401, 2402, 2901	1973-2003
CD #5	Electronic	Folder: 'Eco 2020F'. Mostly memos and letters about	
	files	graduate courses, comprehensive exams, and teaching	
		assistants.	2002-2003

#### **Series 5: Conferences**

Textual, electronic records, 1997-2006, 0.02 m.

This series beings with paper files for workshops at the Brookings Institution (1997 and 1998) and a conference, 'Hedonistic regressions', held on 11 November 2002 at the Department of Finance in Ottawa, and a file on the National Bureau of Economic Research (USA) workshops and conferences (2003-2005).

Access: Open

Box 007, files 25 - 29

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#### Series 6: Consulting

Textual, electronic records, 1991-2004, 0.02 m

Professor Fuss has served as a consultant to government and industry for many years, but only two projects are documented in this series, his work as a member of the Price Measurement Advisory Committee at Statistics Canada and a study he did for United Communications Ltd. on long distance telephone service in Canada.

Access: Open

/Box	(file)	Description	Date(s)
	CD #4	'Correspondence: 'Statcan' file. Price Measurement Advisory Committee	1991-1992
	CD #5	Folder: 'Statistics Canada'. Files re Price Measurement Advisory Committee, on Compact disc #5, 'Fuss emails'.	2003-2004
/007	(30)	Unitel Communications Ltd. Final preliminary drafts of two reports by Fuss on public long-distance telephone service in Canada.	1991
		terephone service in Canada.	1771

#### Series 7: Research

Textual, electronic, 1987-2002, 0.03 m.

This series consists of grant applications and related research files for projects, the results of which were all published. They do not comprise the whole of Professor Fuss' research projects, published or not. The paper files contain the applications, covering correspondence, and reports. The arrangement is chronologically by project.

Professor Fuss' compact disc #3, titled 'Research', contains a large number of files on research projects, arranged by folder, sub-folders and files. Where the results were published, files that could be were printed out and filed in Series 8: Manuscripts and publications. Some files were also printed out and placed in Series 1: Correspondence. Only files that could not be printed, or where formatting made tables and mathematical formulae incomprehensible, or the files were extremely long, are listed.

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#### **Series 7: Research** (continued)

There also research files on compact disc #5 ['Professor Fuss' e-mail'], a listing of which is included, along with the contents of the rest of this series, in Appendix 3.

Access: Open

/Box	(file)	Description	Date(s)
/008	(01) –(07)	Research projects	1987-2002
CD #3	Folder	'Research'	1990-2006
CD #5	Folder	'Research'	1997-2004

#### Series 8: Manuscripts and publications

Textual, 1976-2006, 0.78 m.

The section in Professor Fuss' curriculum vitae that relates to his written works is divided into several sections: books and monographs, articles, published research reports, other publications, unpublished research reports, and unpublished papers. In this series, that system has not been followed – the arrangement is chronological by date of latest draft of the paper or date of publication. The files contain any combination of: covering correspondence, contracts, drafts of papers and final copies, offprints, reviews, and royalty payments.

Professor Fuss is the author of five books and monographs and over forty published articles; many are not represented in this series. For example, of his five published research reports, four of which focus on the demand for and cost of energy in manufacturing, and the last is on the regulation of telecommunications in Canada, none is present in this series. The other major gap is with his published articles; about 30 are missing. On the other hand, most of Professor Fuss' "unpublished papers", largely working papers series of the University of Toronto's Department of Economics and its Institute for Policy Analysis, the National Bureau of Economic Research (USA) and the London (England) Business School; are present. His "unpublished research reports", done for federal and provincial governments; are also well represented. Only one publication after 2001 is documented.

Access: Open

For a listing of the contents of this series, see Appendix 4.

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#### **Series 8: Manuscripts and publications**

/Box	(file)	Description	Date(s)
/008	(09) - (23)	'The demand for electricity in Ontario, 1976-1985' –	
		'Productivity measurement'	1976-1982
/009		'A general approach' – 'High tech and	
		productivity'	1982-1990
/010		'Changes in manufacturing productivity' – 'The	1991-1993
		vertically integrated dominant telecommunications firm'	
/011	(01) - (11)	'The determinants of success' – 'The effects of capital	
	` / ` /	subsidization'	1994-2006

#### Series 9: Addresses

Textual, 1993, 0.02 m

This series consists of a single address, "Efficient Pricing of Telecommunication Services and the Ways to Get There", delivered by Professor Fuss and Leonard Waverman at the National Conference on the Future of Telecommunications in Canada, 1 April 1993.

Access: Open

Box 011, file 12

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# Appendix 1: Series 3: Administrative files

/Box	(file)	Description	Date(s)
CD #2	Electronic files	All records described below are restricted. Electronic files consisting primarily of correspondence, memoranda and reports relating to administrative activities after Fuss stepped down as chair of the Department of Economics in 1990 (he was acting chair in 2000-2001).	1990-2006
CD #4	Folder	'Correspondence: Dept. Eco.' [University of Toronto]. Correspondence and memoranda relating to administrative structure, courses, journals, and sabbaticals.	1993-2002
CD #5	Fuss and his teaching issu sub-folders t with explana	ic files listed below consist of e-mails exchanged between colleagues and students regarding a wide range of administes covering the years 2000-2005. Professor Fuss created for manage his e-mail; the arrangement has been left as he distory notes added. Folders that are empty or have nothing on are not included.  'Chair memos'. This folder encompasses the following for files:	strative and Folders and evised it, f archival
	Folder Files	'Arts & Science departments' 'Re: student letters' 'Re: the stuff we discussed' 'Bissell-Heyd Associates candidates' visit to Toronto' 'Re: memo re undergraduate recruiting' 'Room requirements' } policies re 'New classrooms' } bookings 'Multimedia room' } and use	2000-2001
	Folder	'Associate chairs'. 30 files relating to issues and problems, including the budget, course enrolment, teaching assistants, graduate student funding, and filling administrative positions.	2000-2001

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# **Appendix 1: Series 3: Administrative files** (continued)

/Box	(file)	Description	Date(s)
CD #5	Folder	All records described below are restricted. 'Commerce'. 30 files relating to issues in the	
CD 113	1 older	Commerce program, including MPE [Master of	
		Financial Economics program] tuition, enhancement of	
		commerce program, convocation, the Commerce	
		Management Committee, and teaching assistant	
		resources.	2000-2001
	Folder	'Meetings'. Files relating to the RFP meeting and	Jan.Feb.
		presentations.	2002
	Folder	'CRC' [Canadian Research Chair]. Risk management/	
		financial markets theme and cluster, CRC health	
		cluster, nominations to the CRC chair.	2000-2001
	Folder	'Dean correspondence'. Internet issues; enrolment	
		bulge funding, mentorship program, retirements and	2000 2001
		recruiting	2000-2001
	Folder	'Erindale'. Staffing issues	2000-2001
	Folder	'Fundraising'. Files include retail proposal, chair in	
		real estate economics, building expansion, renewal	2000 2001
	Foldon	letters, users committee, space, and spring reunion.	2000-2001
	Folder	'Polanyi'. Applications for the John Charles Polanyi Prize in Economics	2000-2001
	Folder	'Staff'. Mostly housekeeping letters	2000-2001
	Folder	"Third Year Review' Committee files	2001
	Folder	'Computing'.	2001
	Sub-folder	'TSP'[Time Series Processor, a statistical package used	
		to run econometric regress-ions during empirically-	
		oriented research]. Re TSP problem	1999
	Folder	'Economics'. Memos and letters regarding academic	
		hand-books, mandatory retirement, search for chair of	
		Department, faculty standing committees, buildings,	
		and task force on teaching loads.	2004-2005

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### **Appendix 1: Series 3: Administrative files** (continued)

/Box	(file)	Description	Date(s)
		All records described below are restricted.	
CD #5	Fuss chaired	the Department's Recruiting Committee in the early 1990s	
	Folder	'Recruiting'. This folder contains general files on the	
		work of the Recruiting Committee.	2001-2005
	Sub-folder	'2002-2003'. Activities of the Recruiting Committee	
			2003-2003
	Sub-folder	'2003-2004'. Activities of the Recruiting Committee	
			2003-2004
		cruiting'. In 2004-2005, the Department advertised five jun	
	-	ions: Financial Economics, Industrial Organization, Applied	
		mics, Public and Economic Policy, and Development/Law a	
		Economic History; also one teaching (non-tenure) stream po	
		ho wished to teach without also pursuing a research-intensi	
		ng folders document the hiring processes for those and other	positions.
	Sub-folder	'Applied micro'. Files re Applied Micro-economics	2004-2005
	Sub-folder	position at University of Toronto at Mississauga 'CEEE meetings'. Files re interviews at Canadian	2004-2003
	Sub-loidel	Economics Employment Exchange meetings, Toronto,	
		December 2004, for position of assistant professor	2004
	Sub-folder	'Dev L&E Hist'. Files re hiring for a 'Development'	2001
	540 101401	position in the Department of Economics.	2005
	Sub-folder	'Placement officers'. Correspondence re recruitment of	2000
		people for positions	2004
	Sub-folder	'Political Economy'. Recruiting for a joint position with	
		the Department of Political Science	2004-2005
	Sub-folder	'Theory'. Recruiting for Senior Theory position	2005

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### Appendix 2: Series 4: Teaching files

/Box	(file)	Description	Date(s)
		Teaching files, Harvard University	
/001	(24)	Courses. Economics 261A, Fall 1969	1969
	(25) – (26)	Courses. Economics 2010A, Fall 1970 and 1971	1970-1971
	(27)	Courses. Economics 2240A, Fall 1971	1971
		Teaching files, University of Toronto	
/002	(01)	Economics 206Y, Microeconomic theory	1996-1997
	(02)	Economics 312S, Economics of public regulation	
		(Erindale College), 1976-1977	1977
	(03) -	Economics 312S, Economics of public regulation	
	(06)	(Erindale College), 1980-1983, 1984-1985	1980-1985
	(07)	Economics 326S, Advanced micro-economic theory.	
	, ,	Lecture notes, 'Introduction and mathematical review'	n.d.
	(08)	Economics 326F/S, Advanced microeconomic theory	
	, ,	(Erindale College), 1973-1974	1973-1974
	(09) -	Economics 326S, Advanced microeconomic theory	
	(11)	(Erindale College). Spring term 1975-1977	1975-1977
	(12)	Economics 326F/S, Advanced microeconomic theory,	
	` '	1977-1978	1977-1978
	(13)	Economics 326F/S, Advanced microeconomic theory	
	` '	(Erindale College)	1979-1980
	(14) -	Economics 326F, Advanced microeconomic theory, 1980-	
	(16)	1981, 1989-1990	1980-1989
	(17)	Economics 326S. Notes on game theory, 1990-1992	1969,
		<i>B. J</i> ,	1990-1992
	(18) -	Economics 326S, Advanced microeconomic theory, 1991-	-,,,,-,,-
	(20)	1994	1992-1994
	(20)		1002 100.
/003	(01)	Economics 326H/S, Advanced microeconomic theory,	
7002	(01)	2002-2003	2002-2003
	(02)	Economics 326H/S, Advanced microeconomic theory,	2002 2003
	(02)	2003-2004	2003
		2003 200 i	2003

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/Box	(file)	Description	Date(s)
CD #5	Folder	'Eco 326Y'. E-mail – mostly memos about students and	
		messages from them re assignments, tests exams, marks	2002-2004
/003	(03)	Economics 327Y, Econometrics. Lecture notes, pp. 1-77: intro-	
		duction, role of statistics, matrix algebra, general linear model,	
		deterministic specification analysis, and multicollinearity	1976-
	(04)	Economics 327Y, Econometrics. Lecture notes, p. 78-93,	
		118bb, 119e: Generalized least squares and heteroscedasticity	1976-
	(05)	Economics 327Y, Econometrics. Lecture notes, p. 94-100d,	
		111-119: autocorrelation	1976-
	(06)	Economics 327Y, Econometrics. Lecture notes, p. 100g-110:	
		asymptotic distribution theory	1976-
	(07)	Economics 327Y, Econometrics. Lecture notes, p. 120-146d:	1965,
		Instrumental variables and errors in variables	1976-
	(08)	Economics 327Y, Econometrics. Lecture notes, p. 147-158p:	
		Dynamic models; lagged dependent variable and distributed lag	
		models	1976-2004
	(09)	Economics 327Y, Econometrics. Lecture notes, p. 1460-183:	
		Systems of equations	1976-2004
	(10)	Economics 327Y, Econometrics. Lecture notes: Discreet	
		dependent variable models	1976-2004
	(11)	Economics 327Y, Econometrics. Lecture notes: Non-linear	
		models, non-linear estimates; pooling time series and cross-	
		section analysis	1976 -
	(12)	Economics 327Y, Econometrics, 1977-1978	1977-1978
	(13) -	Economics 327Y, Econometrics (Erindale College). Fall term,	
	(16)	1980-1984	1980-1984
	(17)	Economics 327Y, Applied econometrics, 1993-1994	1993-1994
	(18) -	Economics 327Y, Applied econometrics, 1995-1998	1995-1998
	(20)		
/004	(01) –	Economics 327Y, Applied econometrics, 1998-2003	1998-2003
	(05)		
	(06)	Economics 327Y, Applied econometrics, 2004-2005	2004-2005

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/Box	(file)	Description	Date(s)
CD #5 : Electroni c files	Folder	'Eco 327Y'. E-mail consisting mostly of memos about and messages from students regarding term assignments and grading.  Sub-folder: 'Term project'. E-mail messages regarding	2004-2005
/004	(07)	term projects Economics 352ES, Industrial organization (Erindale	2005
		College), 1972-1973	1965, 1973
	(08) - (11)	Economics 352E/Y, Industrial organization (Erindale College). 1973-1974 to 1976-1977	
			1973-1977
	(12) - (13)	Economics 410/2404, Advanced economic theory, 1973-1974, 1974-1975	1974-1975
/005	(01) – (05)	Economics 418S/2404S, Empirical applications of economic theory. Introductions, handouts, notes, examination questions, 1992-1994,1996, 1997	1992-1997
	(06) - (08)	Economics 418S/2404S, Empirical applications of economic theory. Assignments. Chapters 3, 6 and 9	1992-1997
	(09)	Economics 418S/2404S, Empirical applications of economic theory, 1996-1997 'Cost and production functions'	1996-1997
	(10)	Economics 418S/2404S, Empirical applications of economic theory. 'Integrated consumer demand functions'	n.d.
	(11)	Economics 418S/2404S, Empirical applications of	n.u.
		economic theory. 'Investment models'	n.d.
	(12)	Economics 2020. Lecture notes on 'Capital theory'	1973-
	(13)	Economics 2020. Lecture notes on 'Consumer theory	
		under certainty'. Includes lecture notes from Daniel	1965,
	(14)	McFadden at University of California, Berkeley	1973-
	(14)	Economics 2020. Lecture notes on 'Equilibrium in competitive industries'	1973-
	(15)	Economics 2020. Lecture notes on 'General	1050
		equililbrium'	1973-

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/Box	(file)	Description	Date(s)
/005	(16)	Economics 2020. Lecture notes on 'Intertemporal analysis'. Includes lecture notes from Dale Jorgensen at	1969,
		Harvard	1903, 1973-
	(17) - (18)	Economics 2020. Lecture notes on 'Neoclassical	1773
	()	production theory'. Includes lecture notes from Dale	1969,
		Jorgensen at Harvard	1973-
	(19)	Economics 2020. Lecture notes on 'Social choice,	
		consumer surplus, quasi-optional pricing'	1973-
	(20)	Economics 2020A. Lecture notes on 'Uncertainty'	1971-
/006	(01)	Economics 2020F/H. Undated problem sets	n.d.
	(02)	PhD comprehensive exams in economic theory, 1975	1975
	(03)	Microeconomics comprehensive exam question	n.d.
	(04)	Comprehensive exam in microeconomic theory,	
		September 1988	1988
	(05)	Economics 2020H, 1975-1976	1975
	(06)	Economics 2020H. Microeconomic Theory I. Misc.	
	(0.7)	second half materials	1978-1982
	(07)	Economics 2020H. Microeconomic Theory I.	1001 1003
	(00)	Miscellaneous tutorial materials, Module 1	1981-1992
	(08)	Economics 2020F/H, Microeconomic Theory I, 1978-	1070
	(00)	1979. Fall term 1978	1978
	(09)	Economics 2020H, Microeconomic Theory I, 1982-1983. Fall term 1982	1982
	(10) - (13)	Economics 2020F/H, Microeconomic Theory I. Winter	1982
	(10) – (13)	term 1983-1986	1983-1986
	(14) - (22)	Economics 2020H/F, Microeconomic Theory I, 1988-	
	(2.2)	1989 to 1996-1997	1988-1997
	(23)	Comprehensive examination, Microeconomics. Spring and Fall 1994	1994
	(24)	Comprehensive examination, Microeconomics. Spring	
	(2 T)	and Fall 1997	1997
	(25)	Economics 2020H/F, Microeconomic Theory I, 1998-	1000
		1999	1998

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/Box	(file)	Description	Date(s)
/007	(01) – (02)	Economics 2020H/F, Microeconomic Theory I, 2002-2003	2002-2003
CD #5:	Folder	'Eco 2020F'. E-mail consisting mostly of memos and letters about graduate courses, comprehensives, teaching assistants.	2002-2003
/007	(03)	Economics 2030, Microeconomic Theory II. Lecture notes on 'Theory of markets'. Includes lectures by Dale Jorgensen at Harvard	1969, 1973-
	(04) - (11)	Economics 2030X, Microeconomic Theory II, 1973-1974 to 1980-1981	1973-1981
	(12)	Economics 2030X, Microeconomic Theory II, 1982-1983	1982
	(13)	Economics 2030H, Microeconomic Theory II, 1984-1985	1984
	(14)	Economics 2030H, Microeconomic Theory II, 1989-1990	1989
	(15)	Economics 2400, Econometrics: The general linear model, 1981-1982	1981
	(16) (17) – (20)	Economics 2401S, Econometrics, 1977-1978 Economics 2401S, Econometrics, 1981-1982 to 1984-	1978
	(20) - (22)	1985 Economics 2402X, Econometrics. Simultaneous	1982-1985
	, , , , ,	equation methods, 1975-1976, 1976-1977	1975-1976 1975
	(23) (24)	Economics 2404, Economic theory, 1974-1975 Economics 2901H, S, Industrial Organization and Public Organization II, 2002-2003	2003
/008	(01)	SHRCC project: 'Cost and productivity differences	1007 1002
	(02)	between Canadian, U.S. and Japanese industries'. SHRCC project: 'Studies in productivity and competitiveness'	1987-1993 1992-1998

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# Appendix 3: Series 7: Research

/Box	(file)	Description	Date(s)
/008	(03)	National Bureau of Economic Research (USA). Falk project, 'Analysis of productivity and growth of Israeli	
	(04)	manufacturing firms, 1969-1987' United States-Israel Binational Science Foundation (BSF). 'Productivity, employment and the role of research and	1988-1994
		development and industrial policy'	1994
	(05)	Canada-USA productivity gap	1998
	(06)	Inspector General for the Postal Service (USA)	1998
	(07)	York University. Schulich School of Business. 'Economies	
		of scale and scope in Canadian mutual fund management'	2002
CD #3	F 11	'Research, 1990 – 4 May 2006'	1990-2006
	Folder	'Research': 'Ching' Mostly tobles lists of deta	1004
	Folder Folder	'China'. Mostly tables, lists of data	1994
		'Alcohol'. The files in this folder relate mostly to the study, 'The demand for alcoholic beverages in Canada' (1987).	1987-1996
	Folder	'Auto research'	
	Sub-folder	'Auto data BFF'. Mostly graphs and tables	1990-1991
	Sub-folder	'Hultern.Aut'. Contains tables	1979-1980
	Sub-folder	'Trade Pol'. 4 files, all tables	1987
CD #5	Folder	'Research'. One file regarding position at European	
		Economic Review	2004
	Sub-folder	'China'. Correspondence with Loren Brandt and Ge Ying	
		re credit allocation in China.	1999-2002
	Sub-folder	'Data'. Two files on data	2000, 2004
	Sub-folder	'Electricity'. Two files on electricity data in Alberta	2001
	Sub-folder	'Funding'. Several general files on research funding	2000-2002
	Sub-folder	'Postal service'. United States Postal Service, TFP	
		measurements	1998
	Sub-folder	'Productivity'. Correspondence re investment goods price	
		deflators and other aspects of productivity	1998, 2001
	Sub-folder	'SSHRC grant'. Files re Fuss' grant	1997-2001

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### Appendix 4: Series 8: Manuscripts and publications

/Box	(file)	Description	Date(s)
/008	(08)	(with Leonard Waverman), "The demand for electricity in Ontario, 1975-1985". A report submitted to the Select Committee	
	(09)	on Ontario Hydro's Proposed Rate Increase, 8 March 1976 "Dynamic Factor Demand Systems with Explicit Costs of	1976
	(10)	Adjustments", mimeograph, Stanford University, August 1976.  Typescript (unpublished)	1976
	(10)	(with Leonard Waverman), "The demand for electricity in Ontario, 1975-1985". A report submitted to the Sierra Club of	1077
	(11) – (12)	Ontario, June 1977 (co-editor with Daniel McFadden), <i>Production Economics: A</i> Dual Approach to Theory and Applications, Vol. 1, The Theory	1977
	(12)	Dual Approach to Theory and Applications; Vol. 1: The Theory of Production. Contributions to Economic Analysis, vol. 110. Amsterdam: North Holland Publishing Company 1978	1979-1984
	(11) – (12)	(co-editor with Daniel McFadden), <i>Production Economics: A</i> Dual Approach to Theory and Applications; Vol. 2: Applications	1777 1701
	()	of the Theory of Production. Contributions to Economic Analysis, vol. 111. Amsterdam: North Holland Publishing	
	(12)	Company 1978	1979-1984
	(13)	(with Leonard Waverman), "The Regulation of Telecommunications in Canada: Notes on Evidence Pertaining to the Natural Monopoly Characteristics of Bell Canada". University of	
		Toronto, Faculty of Law: Law and Economics Workshop Series, No. WSII-8. October 1978	1978
	(14)	(with M. Denny and C. Everson), <i>Productivity, Employment and Technical Change in CanadianTelecommunications: The Case of Bell Canada</i> . Interim report to Department of Communications	
		[Ottawa], December 1978; Final report, March 1979	1978-1979
	(15)	(with E. Berndt and L. Waverman), "A Dynamic Model of Costs of Adjustment and Interrelated Factor Demands, with an Empirical Application to Energy Demand in U.S.	
		Manufacturing". University of Toronto, Institute for Policy Analysis Working Paper No. 7925, November 1979. Department of Economics Discussion Paper No. 70, 30. University of British	
		of Economics Discussion Paper No. 79-30, University of British Columbia, November 1979. Revised May 1980	1980

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/Box	(file)	Description	Date(s)
/008	(16)	"Modelling the Cost and Production Structures of Manufacturing Industries", <i>Economic Policy Review</i> , Institute for Policy Analysis, University of Toronto, vol. II, 1980, 17-42	1980
	(17)	(with M. Denny). "The Effects of Factor Prices and Technoogical Change on the Occupational Demand for Labour: Evidence from Canadian Telecommunications." University of Toronto Institute of Policy Analysis Working Paper No. 8014, July 1980	1980
	(18)	with M. Denny), "Intertemporal and Interspatial Comparisons of Cost Efficiency and Productivity". University of Toronto, Institute for Policy Analysis Working Paper No. 8018, December 1980	1980
	(19)	"A Survey of Recent Results in the Analysis of Production Conditions in Telecommunications". University of Toronto, Institute for Policy Analysis Working Paper No. 8120, July 1981	
	(20)	(with M. Denny),"Intertemporal Changes in the Levels of Regional Labour Productivity in Canadian Manufacturing". University of Toronto, Institute for Policy Analysis Working Paper No. 8131, December 1981; Chapter 2 in A. Dogramaci, (ed.), Developments in Econometric Analyses of Productivity.	1981
	(21)	Boston: Kluwer Nijhoff Publishing Company, 1982, 17-34 (with M. Denny), <i>Productivity: A Selective Survey of Recent Developments and the Canadian Experience</i> . Ontario Economic	1981
	(23)	Council, Discussion Paper Series, Toronto, 1982 (with E. Berndt). "Productivity Measurement using Capital Asset Valuation to Adjust for Variations in Utilization". National Bureau of Economic Research (USA) Working Paper No. 895, May 1982	1982 1982
/009	(01)	(with M. Denny), "A General Approach to Intertemporal and Interspatial Productivity Comparisons". University of Toronto, Institute for Policy Analysis Working Paper No. 8202, January	
		1982; Journal of Econometrics, December 1983, 315-330	1982

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/Box	(file)	Description	Date(s)
/009	(02)	(with L. Waverman). "Productivity and Growth in the Automobile Industry, 1970-1980: A Comparison of Canada, Japan and the United States". National Bureau of Economic	1007
	(03)	Research (USA) Working Paper No. 1735, October 1985 (with L. Waverman). "The Canada-U.S. Auto Pact of 1965: An Experiment in Selective Trade Liberalization". National Bureau of Economic Research Inc. (USA) Working Paper 1953, June	1985
	(0.4)	1986	1986
	(04)	"Cost and Productivity Differences Under Temporary Equilibrium – A Restricted Cost Function Approach". University	
		of Toronto, September 1986. Preliminary draft	1986
	(05)	(with L. Waverman), "The Demand for Alcoholic Beverages in	
		Canada: An Application of the Almost Ideal Demand System".	
		University of Toronto, Department of Economics and Institute	1987
	(06)	for Policy Analysis Working Paper No. 8709, July 1987 "Technical appendix to the report to the Association of Canadian	1987
	(00)	Distillers"	1987 (?)
	(07)	"Comparison of 'Rate of Return Regulation' and a 'Price Caps'	( )
		approach for Ontario Utilities". Draft interim report for Ontario	
	(00)	Ministry of Energy, 31 March 1989	1988-1989
	(08)	(with E.R. Berndt), "Economic CapacityUtilization and Productivity Measurement for Multiproduct Firms with Multiple	
		Quasi-fixed Inputs", National Bureau of Economic Research	
		(USA) Working Paper No. 2932, April 1989	1989
	(09)	"Heteroskedatiscity-consistent Estimation of the Variance-	
		covariance Matrix for the Almost Ideal Demand System".	
		University of Toronto Department of Economics and Institute for	1989
	(10)	Policy Analysis Working Paper No. 8911, June 1989 (with L. Waverman), "Productivity Growth in the Automobile	1989
	(10)	Industry, 1970-1984: A Comparison of Canada, Japan and the	
		United States", in C. Hulten (ed.) <i>Productivity Growth in Japan</i>	
		and the United States, N.B.E.R. Studies in Income and Wealth,	
		University of Chicago Press, 1990, 85-108	1989-1990

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/Box	(file)	Description	Date(s)
/009	(11) – (12)	(with L. Waverman), "The Extent and Sources of Cost and Efficiency Differences Between U.S.and Japanese Motor Vehicle Producers". National Bureau of Economic Research (USA) Working Paper No. 1849, March 1986; <i>Journal of the Japanese and International Economies</i> , September 1990, 219-256	1 986-1990
	(13)	(with A. Bregman and H. Regev), "High Tech and Productivity: Evidence from Israeli Industrial Firms", <i>European Economic Review</i> , August 1991, 1199-1221	1988-1990
	(14)	(with M. Denny, J. Bernstein and L. Waverman), "Changes in Manufacturing Productivity and Competitiveness in Canadian and American Regions, 1975-1985". University of Toronto, Department of Economics and Institute for Policy Analysis Working Paper No. 9126, November 1991	1991
/010	(01)	(with L. Waverman), Costs and Productivity in Automobile	-,,,
	, ,	Production: The Challenge of Japanese Efficiency Cambridge: Cambridge University Press, 1992. Correspondence	1991-2005
	(02) – (09)	(with L. Waverman), Costs and Productivity in Automobile Production: The Challenge of Japanese Efficiency Cambridge:	
	(10)	Cambridge University Press, 1992. Drafts, chapters 1-8 (with L. Waverman), <i>Costs and Productivity in Automobile</i>	1990
	(11)	Production: The Challenge of Japanese Efficiency Cambridge: Cambridge University Press, 1992. Reviews (with A. Bergman and H. Regev), "The Production and Cost	1993-1994
	(11)	Structure of Israeli Industry: Evidence from Individual Firm Data". University of Toronto, Department of Economics and	
		Institute for Policy Analysis Working Paper No. 9206, March 1992	1992
	(12)	"Economic Evidence on Scale, Scope and the Presence of Natural Monopoly: What Can It Tell Us About the Desirability of Competition in Public Long-Distance Telephone Service?".	
		University of Toronto, Department of Economics and Institute for Policy Analysis Working Paper No. 9210, June 1992	1992

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/Box	(file)	Description	Date(s)
/010	(13)	(with M. Denny, J. Bernstein, L. Waverman, and S. Nakamura), "Productivity in Manufacturing Industries - Canada, Japan and the United States,1953-1986: Was the 'Productivity Slowdown' Reversed?" University of Toronto, Department of Economics and Institute for Policy Analysis Working Paper No. 9126, November	
	44.40	1991; Canadian Journal of Economics, August 1992, 584-603	1991-1992
	(14)	(with Leonard Waverman), "A 'Price Caps' Approach to Socially Owned Enterprises", November 1992. Drafts (unpublished)	1992
	(15)	(with A. Bregman), "Ownership, Firm Size and Production	1772
	` '	Efficiency in Israeli Industry: Proposals for Industrial Policy"	
		The Economic Quarterly, December 1992, 159-83 (in Hebrew).	
	(16)	Draft (with S. Mumby and I. Wayarman) "The State of the North	1991
	(16) – (17)	(with S. Murphy and L. Waverman), "The State of the North American and Japanese Motor Vehicle Industries: A Partially	
	(17)	Calibrated Model to Examine the Impacts of Trade Policy	
		Changes". October 1992, revised April 1993; University of	
		Toronto Department of Economics and Institute for Policy	
		Analysis Working Paper No. 9216, November 1992; National	
		Bureau of Economic Research (USA) Working Paper No.	1992-1993
	(18)	4225, December 1992, revised March 1993 "The vertically-integrated dominant telecommunications firm".	1992-1993
	(10)	29 October 1993. Typescript	1993
/011	(01)	(with H.D. Benjamin and G. Anderson), "The Determinants of	
		Success in University Introductory Economics Courses";	
		University of Toronto, Department of Economics and Institute	
		for Policy Analysis Working Paper No. 9101, January 1991; Journal of Economic Education, Spring 1994, 99-119	1991-1992
	(02) –	"Productivity Growth in Canadian Telecommunications".	1771-1772
	(03)	University of Toronto, Department of Economics and Institute	
	• /	for Policy Analysis Working Paper No. 9214, September 1992;	
		Canadian Journal of Economics, May 1994, 371-392	1992-1993

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/Box	(file)	Description	Date(s)
/011	(04)	(with A. Bregman and H. Regev), "The Production and Cost Structure of Israeli Industry: Evidence from Individual Firm	
		Data" in Melvyn A, Fuss, Reuben Gronau and Ariel Pakes,	
		eds., Essays in Applied Econometrics: A Volume in Honour of	
		Zvi Griliches. Special issue of the Journal of Econometrics,	1001 1007
	(O.F.)	January, 1995, 45-81	1991-1995
	(05)	"A pilot study of utility based quality of life instruments in	
		patients with Alzheimer's Disease and their caregivers." Draft,	1000
	(0.0)	1998-01-20	1998
	(06) -	(with A. Bregman and H. Regev), "The Effects of Capital	
	(07)	Subsidization on Israeli Industry". US National Bureau of	
		Economic Research (USA) Working Paper No. 6788, November	
		1998; Bank of Israel Review, November 1999, 77-101. Drafts	1997-1999
	(08)	(with Anindya Sen), 'Why the Canadian bank mergers were	
		rejected: an econometric answer". Drafts	1999
	(09) -	(with L. Waverman), "Econometric Cost Functions", chapter 5	
	(10)	in M.E. Cave, S.K. Majumdar, and I. Volgelsang (eds.)	
		Handbook of Telecommunications Economics, Volume 1,	
		North-Holland Press, 2002, 144-177. Drafts	2001
	(11)	'The effects of capital subsidization'	2006