

University of Toronto Archives



James D. Prentice Fonds

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UNIVERSITY OF TORONTO ARCHIVES

James D. Prentice Fonds

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Biographical Note

James Prentice came to the University of Toronto in 1959 upon completing his Ph.D. in Physics at Glasgow University. His early career concentrated in the area of nuclear physics that included numerous publications in collaboration with Kenneth McNeill (see B1994-0004) and a short stint at Chalk River in the summer of 1962. A sabbatical at the Rutherford High Energy Laboratory in 1963-64 marked a turning point as his research interests shifted to the study of particle physics. Through the remainder of the 1960s up until about 1972, he, along with University of Toronto colleague Dick Steenberg, participated in the Bubble Chamber experiments at the U.S. Argonne National Laboratory, thus becoming Canadian pioneers in the experimental high energy physics. In 1969, they were responsible for having POLLY, an automatic measuring machine, the first of its kind in Canada, installed at the University of Toronto. By 1972, the high energy physics (HEP) group at the University of Toronto was growing and included T.S. Yoon, Tony Key and Ed West. Prof. Prentice was a member of several international research teams. In the early 1970s, he conducted experiments at the National Accelerator Laboratory (later Fermi NAL, the world's largest accelerator at Batavia Illinois). There, he was involved in an ongoing experiment to measure the scattering of high energy photons on protons (E25a), the results of which are still consulted in the Particle Data Table. In the late 1970s, he was part of a team that was the first worldwide to successfully measure the lifetime of charmed particles (E531). Throughout the 1980s he was active in the ARGUS Collaboration at the Deutsches Elektronen Synchrotrone (DESY) in Germany of which he published widely.

Apart from his research in high energy physics, Prof. Prentice also taught at both the undergraduate and graduate level, supervising nearly twenty doctoral graduates. He also taught popular physics courses through the School of Continuing Education. He has been an active member of several social and peace activist groups including Science for Peace, Canadian Concerned Scientists and Faculty Committee on Vietnam. In 1995, he retired as Professor Emeritus from the University of Toronto. He lives in Victoria B.C. with his wife and historian Alison Prentice (See B1998-0017).

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Scope and Content

Records [textual ; graphic] 1951-2012 7.0 m

Records in this fonds document Prof. Prentice's career from his early years as a graduate student up until his retirement in 1995 with special emphasis on the 1960s to the mid 1980s. The bulk of the records (Series 1, 4, 5 and 6) focus on his pioneering research in physics and the various scientific collaborations in which he took part. These records, that include correspondence, notes, minutes of meetings and agenda of associations, papers and addresses not only document Prof. Prentice's career but reveal much about the international co-operation among scientist in the world of experimental particle physics. They also document the various associations, committees and groups that facilitated this co-operation. Series 2, 3, 9 document his role as a teacher and faculty member of the Department of Physics. Records relating to his own education can be found in Series 7 while his activities as a social activist are documented in Series 8.

Accessions: B1996-0008, B2005-0023, B2015-0019

Access Restricted: Files relating to grievances of Physics staff found in Series 2 B2005-0023/008 and Letters of Recommendation Series 9 are closed for 30 years from latest date of file activity. Files in B2015-0019 relating to hiring in the High Energy Physics group are closed. Consult Archivist.

All other records are open.

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Series 1 Professional Associations and Research Institutions

1962-1995 1.72 m

Throughout his career, Prof. Prentice was a member of and held numerous administrative positions on professional associations such as High Energy Physics group, the Institute of Particle Physics, the Canadian Association of Physicists, Universities Research Association, and the National Science and Engineering Research Council. His expertise was also sought by boards and committees of research institutions such as the Canadian High Energy Electron Ring (CHEER), the Fermi National Accelerator Laboratory (FNAL), the Deutsches Elektronen Synchrotron (DESY), the Cornell Electron Storage Ring (CESR), Hadron Elektron Ring Anlage (HERA), and the Superconducting Super Collider Program Advisory Committee (SCC).

This series documents his contribution to these associations and research institutions. The files are grouped by association or institution, and are arranged somewhat chronologically. They contain correspondence, minutes of meetings, memos, drafts, final reports and position papers. They not only document Prof. Prentice's personal involvement but also contain a wealth of information about what issues defined Canadian physicists in this period and give evidence to the growth and demands of high energy physics as a research discipline.

For Further details see Appendix 1

B1996-0008/001 - /007

B2005-0023/001 - /003 (01)-(04)

B2015-0019/002 (01)-(02)

Series 2 University of Toronto

1958-1993 0.64 m

This series contains general files on issues relating to the University and the Department of Physics, as well as records documenting Prof. Prentice's administrative and teaching positions. Files contain mainly correspondence, reports, briefs, agenda and minutes. Some of the positions documented for the Physics Department include: Implementation Committee, Commission on University Government (1969-1971), Colloquium Committee (1983-1993), SHE wins program (1985-1988), Gender Issues Committee (1991-1993), 4th year course curriculum committee (1961-1974). There are several files relating to physics curriculum and lecture assignments for the department as well as his cross-appointment at Innis College. This series includes collected documents relating to grievance cases in the Department of Physics in which Prof. Prentice took a particular interest

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including Dr. Stephan Salaf and Kim Yip Chun. There are also files relating the HEP Search committee 1986-88 of which he was a member, the Gender Equity committee in the Department of Physics as well as other miscellaneous documentation on other groups including Women in Science and the Natural Philosophers group.

Files are grouped by committee or subject and arranged chronologically. Files relating to grievances and Prof. Prentice's appointments have been filed at the end of this series in B2005-0023/005

B1996-0008/008

B2005-0023/004 - /005

B2015-0015/002 - 003

Access: Restricted - Files relating to grievances of Physics staff found B2005-0023/005 are closed for 30 years from latest date of file activity. Files in B2015-0019/003 closed. Consult archivist.

Series 3 Teaching

1958-1991 0.42 m

This series consists of a sample of course files that contain lectures, notes, problem sets, tests, exams and some student course and self-evaluations. Files are grouped together by course and arranged by course level i.e. 1st, 2nd, 3rd and 4th years. Physics courses for engineering, forestry and dentistry are filed after the general Arts courses in Physics. There are also records relating to courses and lectures given in the School of Continuing Education including a popular physics course called Physics for Amateurs.

B1996-0008/009 and /010 (01) - (10).

B2005-0023/006 (01) – (06)

Series 4 Academic Research

1961-1994 2.18 m

This series documents Prof. Prentice's research and publishing collaborations with other Canadian and international physicists. There are quite extensive files on a number of ongoing research projects as well as a few isolated experiments. Records include correspondence, minutes of meetings, research proposals and reports, results, memos, data analysis, grant information, draft articles or parts of articles, manuscripts, records relating to publishing including referee comments. Files are grouped by project or experiment, and are arranged somewhat chronologically. Miscellaneous files relating to the publishing of papers and early proposals are filed at the end of this series.

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For further details see Appendix 2

B1996-0008/011 - /015.

B2005-0023/003 (05)-(13) and /007 (10)-(15).

B2015-0019/002 (03)

Series 5 Reviews

1967-1994 0.05 m textual

This series includes files relating to manuscript reviews that Prof. Prentice performed for Physical Review Letters, The Canadian Journal of Physics as well as a review of project proposals for the National Science Foundation. Files contain correspondence, notes and reports on manuscripts.

B1996-0008/010 (11) - (15).

Series 6 Colloquia, seminars and conferences

1963-1991 0.65 m

This series is mainly notebooks containing notes and observations taken by Prof. Prentice when attending conferences, colloquia, seminars, meetings and talks. This series relates to records in Series 1 and 4 since it is evident that the notes were taken at meetings of the research and professional groups of which he was a member. Most are described either on the spine or on the front cover and many contain notes from more than one event. They are boxed by size and arranged chronologically. Early ones have been numbered by Prof. Prentice. To facilitate access, an item number has been written on the inside cover of all of the books.

A second accrual documenting talks at conferences, short articles, and participation in symposiums are filed chronologically.

For further details see Appendix 3

B1996-0008/016 - /019

B2005-0023/006(07)-(14) and /007 (01)-(09)

B2015-0019/001 (02)-(04)

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Series 7 Education

1951-1959 0.4 m

Course notes, exam papers and Ph.D. research notes document Prof. Prentice's graduate education at McGill University (M.Sc.1953) and Glasgow University (Ph.D. 1959). Also contains early diaries relating to his time at McGill 1952-1957. Files are arranged chronologically.

B1996-0008/020 - /021; B2015-0019/001(01)

Series 8 Social Activism and Peace Groups

1967-1993 0.26 textual

This series documents Prof. Prentice's activities as a social activist and his involvement in peace groups. Some of the groups were based at the University and while others were part of larger national and international groups. The main groups include: Science for Peace including documentation on the Toronto Resolution, Faculty Committee on Vietnam, University of Toronto Men's Forum, Pollution Probe and Canadian Concerned Scientists. There are also files relating to peace action relating to the Vietnam and Iraqi Wars.

Files contain correspondence, memos, reports, minutes, publicity material, surveys and newspaper clippings. They are filed alphabetically by group.

B1993-0008/007 (14)-(17)
B2005-0023/008 - /009

Series 9 Letters of Recommendation

1960-1994 0.39 textual

This series contains letters of recommendations for students and colleagues relating to promotions, applications for graduate school, post doctoral positions, grant funding and awards. Files are arranged alphabetically by name. Two general files of correspondence are filed at the end.

B2005-0023/010 - /012

Access: Restricted - Closed for 30 years from latest date of file activity.

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Series 10 Photographs

1959-198- 1.07 m graphic

Photographs document many of the scientific laboratories with which Prof. Prentice was associated. There are photos the University of Toronto Physics laboratory in the 1970s, of the CHEER model, close ups of ARGUS and its installation at DESY as well as views of the synchrotron and DESY grounds. There are also several shots taken at the FermiLab in California and the NAL in Illinois showing instruments, scientists as well as aerial views of the laboratories. Finally there is one file of general photographs showing Prof. Prentice as well as colleagues. Of particular note is a panoramic print of University of Toronto Physics Staff and students taken in May 1959.

See Appendix 4 for file list:

B1996-0008/001

B2005-0023/001P

B2005-0023/002P

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Appendix 1 Series 1: Professional Association and Research Institutions

| Acc./Box | Description | Dates |
|-----------------|--|--------------|
| B1996-0008/001 | Institute of Particle Physics (IPP) | 1968-1982 |
| | (01) - Constitution – Early Drafts | 1968-71 |
| | (02) - 1971-1977 | 1971-77 |
| | (03) - 1975-1971 | 1975-71 |
| | (04) - Individuals, Trustees and Institutional Members | 1976-80 |
| | (05) - Requests for funds | 1976-81 |
| | (06) - Annual General Meeting | 1978-85 |
| | (07) - President's letters | 1977-79 |
| | (08) - Politics file | 1976 |
| | (09) - Visiting scientists | 1978 |
| | (10) - Summer school | 1978-80 |
| | (11) - Major project, 1 day meeting | 1979 |
| | (12) - Carleton science workshop | 1979 |
| | (13) - Recruiting (general) | 1980 |
| | (14) - Ad hoc committee on HEP, Report | 1982 |
| | (15) - Applications and unsuccessful candidates for Research Scientist | 1978-81 |
| | (16) - Research scientist | 1978-80 |
| | (17) - Research scientist, applications & regulations | 1980 |
| | (18) - Minutes, agenda, correspondence, Council Reports | 1971-72 |
| B1996-0008/002 | (01) - Trustee | 1987-93 |
| | (02) - minutes, agenda, reports, council correspondence | 1973 |
| | (02a) - Council | 1975-78 |
| | (03) - Council notes from meetings incl. some agenda & minutes | 1976-80 |
| | (04) - Council minutes & notes | 1979-80 |
| | (05) - Minutes & agenda | 1982-91 |
| | (06) - Trustees | 1986-87 |
| | (07) - Trustees | 1987-90 |
| | (08) - Board of trustess – minutes & financial statements | 1987-90 |

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Appendix 1 Series 1: Professional Association and Research Institutions

| Acc./Box | Description | Dates |
|-----------------|---|--------------|
| B1996-0008/003 | Canadian Association of Physicists (CAP) | 1969-1991 |
| | (01) - Report | ca. 1969 |
| | (02) - 1973-1974 | 1973-74 |
| | (03) - 1973-1976 | 1973-76 |
| | (04) - Reports | 1981 |
| | (05) - NSERC Review of physics in Canada | 1981 |
| | (06) - HEP High Energy Physics Review | 1981 |
| | (07) - Subatomic physics and Sherbrook, June | 1984 |
| | Committee – Women in Physics | 1982-1993 |
| | (08) - Canadian Association for Women in Science | 1982-89 |
| | (09) - 1983-1989 | 1983-89 |
| | (10) - 1984-1992 | 1984-92 |
| | (11) - 1990-1993 | 1990-93 |
| | National Science and Engineering Research Council (NSERC) | |
| | (12) - Meeting | 1989-82 |
| | (13) - HEP GSC | 1982-83 |
| | (14) - Policy | 1982-84 |
| | (15) - Grant Selection Committee (HEP) – Policy & Regulations | 1984 |
| | (16) - Grant Selection Committee | 1984 |
| | (17) - Applications – TRIUMF Site Visit | 1984 |
| | (18) - Long Range Planning: Subatomic Town Meeting | 1989-90 |
| | (19) - Long Range Planning Committee for Sub-Atomic Physics | 1989-90 |
| B1996-0008/004 | Universities Research Association (URA) | 1973-1982 |
| | (01) - Annual Reports | 1973-78 |
| | (02) - Trustees | 1978-79 |
| | (03) - Board of Trustees – Meeting Sept | 1979 |
| | (04) - 1979-1980 | 1979-80 |
| | (05) - Board of Trustees | 1979-80 |
| | (06) - Trustees 18-19 Sept | 1980 |
| | (07) - Trustees | 1980 |

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| Acc./Box | Description | Dates |
|----------------|---|-------------|
| B1996-0008/004 | Universities Research Association (URA) (cont'd) | 1973-1982 |
| | (08)-(09) - Trustees | 1981 |
| | (10) - Meeting Oct 1-2 | 1981 |
| | (11) - Trustees Meeting | 1981-82 |
| B1996-0008/005 | 200 GeV Study Group – Preliminary Study for a Particle Physics Program for Canada | 1968-1969 |
| | (01) - 1968-1969 | 1968-69 |
| | (02) - 1968 | 1968 |
| | (03) - Origin: Planning & Proposal | ca. 1979-80 |
| | (04) - Electron – Proton Scattering | ca. 1978-80 |
| | (05) - Canadian E-P Workshop 16-18 April | 1980 |
| | (06) - Feasibility Study | 1980 |
| | (07) - Clippings & News Items | 1980 |
| | (08) - Final Proposal | 1980 |
| | (09) - Correspondence & Review | 1980-82 |
| | (10) - Meetings | 1981 |
| B1996-0008/006 | National Accelerator Laboratory | 1971-1973 |
| | (01) - Users | 1971-73 |
| | Fermi National Accelerator Laboratory (FNAL) | 1976-1995 |
| | (02) - Users Executive Committee Minutes | 1976-78 |
| | (03) - Users | 1978 |
| | (04) - Users Executive Committee, Notes & Minutes | 1977-91 |
| | (05) - Users Executive Committee Minutes | 1978-91 |
| | (06) - Users | 1980-95 |
| | Versailles Working Group on High Energy Physics Long Term Planning Sub-Panel | 1984 |
| | (07) - Papers for Meeting 12/13 Nov | 1984 |
| | (08) - Meeting | 1984 |

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| Acc./Box | Description | Dates |
|----------------|---|-----------|
| B1996-0008/006 | Cornell Electron Storage Ring (CESR) | 1988-1989 |
| | (09) - Physics Advisory Committee | 1988 |
| | (10) - Physics Advisory Committee [1] | 1989 |
| | (11) - Physics Advisory Committee [2] | 1989 |
| B1996-0008/007 | Institute of Particle Physics for Canada (IPPC) | 1983-1985 |
| | (01) - Steering Committee | 1983-85 |
| | (02a) - Proposal – Canadian Participation in the HERA Electron – Proton Colliding Beam Facility of DESY | 1983 |
| | (02) - Physics Review Committee | 1983-84 |
| | (03) - Physics Review Committee: Memos & Reports | 1984 |
| | (04) - Physics Research Group: Memos & Reports | 1984-85 |
| | (05) - Physics Research Group: mainly Reports | 1985 |
| | (06) - Physics Research Committee: Meeting 22-23 Nov | 1985 |
| | (07) - Physics Research Committee: Meeting 6-7 Feb | 1986 |
| | (08) - Physics Research Committee: Meeting Apr | 1986 |
| | TRIUMPH – Kaon Factory, Superconducting Super Collider and other files | 1984-1991 |
| | (09) - Centre for Elementary Particle Physics (CEPTR) | 1985 |
| | (10) - Factory | 1987-88 |
| | (11) - NRC - Superconducting Super Collider | 1988 |
| | (12) - NRC - Canada Participation in the super- conducting super collider | 1988 |
| | (13) - Andean Committee on Fundamental Physics | 1991 |
| | (14) - PRAXIS – Research Institute for Social Change | 1968-71 |
| | (15) - Canadian Concerned Scientists & Subject File Pollution Probe | 1969 |
| | (16) - Canadianization of Canadian Universities | 1973 |
| | (17) - Subject File – Science Policy | 1970 |

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Appendix 1 Series 1: Professional Association and Research Institutions

| Acc./Box | Description | Dates |
|----------------|---|-------------------|
| B2005-0023/001 | HEP (High Energy Physics) | 1961-1972 |
| | (01) - at Toronto – early correspondence; 1963-64, 74 | 1963-74 |
| | (02) - correspondence | 1964-66 |
| | (03) - publicity and press clippings | 1959-74 |
| | (04) - at Toronto; NRC Research Grants – applications | 1961-65 |
| | (05) - NRC Progress Reports & HEP Grants | 1967-72 |
| | (06) - reports, proposals – Duckworth Cmt. | 1966 |
| B2015-0019/002 | (01) - NRC notes and proposal for Linear Accelerator | 1962 |
| B2005-0023/001 | (06a) - five year forecasts & computer funding | 1967-69 |
| | (07) - Space | 1981-91 |
| | (08) - Grant Selection Cmt. | 1984 |
| B2015-0019/002 | (02) - Report on World Support of Research in HEP IPP (Institute of Partial Physics) | 1963 1977-1982 |
| B2005-0023/001 | (09) - Correspondence re NRC & fund summaries | 1977-81 |
| | (10) - Grant Applications | 1979-80 |
| | (11) - correspondence to Kerwin, NRC President | 1980-81 |
| | (12) - Mutiny with John Fraser | 1977-80 |
| | (13) - NSC and NSERC Policy | 1977-78 |
| | (14) - letters to the Presidents | 1977-78 |
| | (15) - Review Committee for Malcolm Goddard | 1982-86 |
| B2005-0023/002 | Bubble Chamber Group | 1967-1969 |
| | (01) - NRC Visiting Cmt. | 1967-68 |
| | (02) - Grant Application Defense Research Board | 1963-69 |
| | (03) Ontario Dept of University Affairs – Grants | 1966-68 |
| | POLLY (computer controlled optical scanning system) | 1970-1971 |
| | (04) - NRC Negotiated Grant Applications | 1970-71 |
| | (05) Senate Committee on Science Policy – Brief | 1972-1977 |

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Appendix 1 Series 1: Professional Association and Research Institutions

| Acc./Box | Description | Dates |
|-----------------|---|----------------------|
| B2005-0023/002 | Natural Philosophers | 1980-1989 |
| (05a) | - Founded April 1977 by Dr. Harrison & Dr. Prentice; still meeting in 2004 | 1980-89 |
| (06) | - Nomination for IUPAP | 1984 |
| B2005-0023/002 | TRIUMP (Time Projection Chamber) | 1979-1982 |
| (07) | - NSERC | 1979 |
| (08) | - Simeon Fraser | 1982 |
| (09) | Canadian Association of Physicists - Proposals to SCC (Science Culture Canada), Public Awareness Campaign | 1988 1988 |
| (10) | - SCC-CAP Committee on Public Awareness of Science | 1988 |
| (11) | HERA at DESY - HERA, SLC, OPAL | 1982-1986 1982-84 |
| (12) | - at DESY, Detector Meeting; May 29 | 1984 |
| (13) | - Experiments - Meeting | 1984 |
| (14) | - correspondence | 1984-85 |
| (15) | - Notebook | 1983-86 |
| B2005-0023/003 | ZEUS experiments at DESY | 1984-1991 |
| (01) | - II Notebook | 1984-87 |
| (02) | - III May '86 – July '90 | 1986-90 |
| (03) | - correspondence | 1991 |
| (04) | SSC (Superconducting Super Collider) - correspondence | 1987-1993 1987 |
| (05) | - Program Advisory Cmt. | 1990 |
| (06) | - meetings, notes & SDC (Solenoidal Detector Collaboration) | 1990s |
| (07) | - NSERC Cmt. – Solenoid Detector | 1993 |

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Appendix 2 Series 4: Academic Research

| Acc./Box | Description | Dates |
|---------------------|---|--------------|
| B1996-0008/011 (01) | Mossbauer Effect | 1961 |
| | Cl35 | 1961-1968 |
| (02) | - Publications | n.d. |
| (03) | - Paper: Properties of some energy levels of Cl35 | 1966-68 |
| (04) | - notes | 1961-62 |
| (05) | - manuscript paper: C12, (C12, a) Ne20 | 1963 |
| (06) | - notes & manuscript | 1962-66 |
| | F19 (including Chalk River) | 1962-1965 |
| (07) | - Summer visitor at chalk river | 1962 |
| (08) | - 1961-1962 | 1961-62 |
| (09) | - Chalk River Summer | 1962 |
| (10) | - B10 & Rotating Targets | 1963 |
| (11) | - 1962-1963, 1964 | 1962-64 |
| (12) | - Edmonton: CAP APS invited talk | 1965 |
| | 7Bev/c and PPA proposals | 1968-1970 |
| (13) | - 1968 | 1968 |
| B1996-0008/011(14) | - 1969-1970 | 1969-70 |
| B1996-0008/011 (15) | Rutherford Lab, sabbatical | 1963-1964 |
| B2015-0019/002 (03) | - T Beam Studies | 1963-1964 |
| B1996-0008/011 (16) | Grant Proposal for HEP Program at UofT | 1966 |
| B1996-0008/012 | Stanford Linear Accelerator – Proposal | 1970-1971 |
| (01) | - 1970-1971 | 1970-71 |
| (02) | - Proposal | 1970 |
| (03) | - research files | |
| | Bubble Chamber Experiments | 1963-1973 |
| (04) | - 1 st Bubble Chamber Experiment | 1963-69 |
| (05) | - 1966-1971 | 1966-71 |
| (06) | - 1967-1971 | 1967-71 |
| (07) | - 1969 | 1969 |
| (08) | - Progress Report | 1969 |

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Series 4: Academic Research

| Acc./Box | Description | Dates |
|-----------------|---|--------------|
| B1996-0008/012 | Bubble Chamber Experiments (cont'd) | 1963-1973 |
| | (09) - general research | ca. 1968-72 |
| | (10) - G. Meson Paper | 1971 |
| | (11) - Experiment 2B | 1973 |
| B1996-0008/013 | (01) - Experiment 2B | 1971-72 |
| | (02) - Experiment 2B | 1971-72 |
| | (03) - Experiment #10 | 1971-74 |
| | Polarized Helium-3 Target | 1963-1972 |
| | (04) - (1) | 1969-71 |
| | (05) - (2); 1963, 1967-70 | 1963-70 |
| | (06) - Progress & Status Report | 1969-70 |
| | (07) - Progress & Status Report | 1971-72 |
| | Experiment 25a | |
| | (08) - 1974-1976 | 1974-76 |
| | (09) - early notes for proposal | n.d. |
| | (10) - J/4 Photoproduction Paper graphs & preprints | 1976 |
| | (11) - 1974-1976 | 1974-76 |
| B1996-0008/014 | Experiment 531 | 1977-1984 |
| | (01) - Experiment Agreement & Group Meetings | 1977-80 |
| | (02) - Analysis | 1977-81 |
| | (03) - Proposal & Extension Request | 1979 |
| | (04) - Event 635-4949 | 1980 |
| | (05) - Meetings in Japan | 1980 |
| | (06) - Conference Papers and Analysis | 1978-82 |
| | (07) - Emulsion Design & Group Meeting Notes | 1977 |
| | (08) - 2 nd run group meeting | 1981 |
| | (09) - 2 nd run group meeting (II) | 1981 |
| | (10) - (II) JDP – Neutrion Physics | 1978 |
| | (11) - (III) JDP – Neutrion Physics | 1978-79 |
| | (12) - Extruded Proportional Chambers | 1979 |
| B1996-0008/015 | (01) - Lead Glass | 1978 |
| | (02) - Lead Glass | 1980 |
| | (03) - Calibrations | 1980-81 |
| | (04) - Charmed Lifetimes, references | 1980-82 |

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Appendix 2

Series 4: Academic Research

| Acc./Box | Description | Dates |
|---------------------------------------|--|--------------|
| B1996-0008/015 | Muon Polarimeter, Research Project | 1971-1982 |
| | (05) - Research Project | 1979-82 |
| | (06) - Polarimeter; Connaught Grant | 1980-81 |
| | (07) Papers – Physics Report | 1980-1982 |
| | (08) Papers – Morroni, EMS, Baryon | 1983-1984 |
| (09) Old Proposals: Toronto & related | 1963-1964 | |
| B2005-0023/003 | ARGUS | 1982-1993 |
| | (08) - Collaboration Meeting | 1985 |
| | (09) - Software – Notebook | 1982/83 |
| | (10) - Microvertex Chamber | 1988-89 |
| | (11) - Microvertex Detector | |
| | (12) - Collaboration Meeting | 1991 |
| | (13) - expenditures | 1993 |
| (14) - physics: notebooks | 1980s | |
| B2005-0023/007 | ARGUS | 1984-1994 |
| | (08) - Physics II – Notebooks | 1984-87 |
| | (09) - Physics III | 1985-91 |
| | (10) - Manuscripts | 1992 |
| | (11) - Physics V | 1994 |
| | (12) Project 77.02 | n.d. |
| | Experiment 337 | 1974-1977 |
| | (13) - Argon National Laboratory; by IPP | 1974-77 |
| | Experiment 531 | 1972-1978 |
| | (14) - Layout | |
| | (15) - III | |
| | Photon Beam Halo | 1971-1974 |
| | (16) - Halo Calculations | |
| | (17) - Report | 1974 |

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Appendix 3 Series 6: Colloquia, Seminars and Conferences

| Acc./Box | Description | Dates |
|-----------------|---|--------------|
| B1996-0008/016 | Notebooks | |
| | (01) HEP (High Energy Physics) Seminars - SLAC - Paris '65-'67 | 1965-1967 |
| | (02) III General Seminars 1967-68 | 1967-1968 |
| | (03) IV HEP Seminars 1967-68 | 1967-1968 |
| | (04) V Kreps - Washington - Philadelphia Mesons '68 | 1968 |
| | (05) VI Seminars 1968-1969 NY APS | 1968-1969 |
| | (06) VII Seminars 1969 Toronto - CAP-HEP Conference ZGS Users | 1969 |
| | (07) VIII 1969 HEP Seminars, Aspen Summer Study, McGill | 1969 |
| | (08) IX Seminars 2/70 - 5/70 Washington APS '70, Philadelphia | 1970 |
| | (09) X Seminars 1970 Winnipeg CAP - Kiev | 1970 |
| | (10) Seminars '70-'71 (past KIEV) | 1970-1971 |
| | (11) APS 1 st Feb 1971 [ring notepad] | 1971 |
| | (12) UofT Summer School - CAP Meeting Carleton, Seminars UofT, NAL | 1971 |
| | (13) 1971-1972 NAL (National Accelerator Laboratory | 1971-1972 |
| | (14) NAL 1972 | 1972 |
| | (15) IPP (Institute of Particle Physics) Summer School McGill 1972 Chicago - NAL HEP International 1972 | |
| | (16) General Relativity Van K. 1972 - Rencontre de Moriond 1973 | |
| | (17) Seminars and Colloquia 1972-73 - NY APS - Reencounter de Moriond | |
| | (18) Seminars 1973 | |
| | (19) F.N.A.L. Seminars | |
| | (20) 1975 Seminars | |
| | (21) [no title] [ANL Symposium 1975] | |
| | (22) CERN? | |
| | (23) Budapest [H.L. Welsh Lectures 1976] | |
| | (24) EMS '77 - FNAL Users '77 | |
| B1996-0008/017 | | |
| | (01) Singapore - Tokyo | 197- |
| | (02) Nuclear War? Model [1978?] | 1978 |

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Appendix 3 Series 6: Colloquia, Seminars and Conferences

| Acc./Box | Description | Dates |
|-----------------|---|--------------|
| B1996-0008/017 | | |
| | (03) no title - conferences and seminars 1978) | 1978 |
| | (04) 1979 Physics Seminars | 1979 |
| | (05) Seminars 1983 | 1983 |
| | (06) Seminars 1985 DESY | 1985 |
| | (07) Colloquia '86 colloquia - 1988 - Bohm '88 | 1986-1988 |
| | (08) HEP Seminars May 1986 | 1986 |
| | (09) BC's Keon Factory - Moriand '87 Seminars 1987 | 1987 |
| | (10) Talks 1987 | 1987 |
| | (11) Banff '88 - SCC '88 | 1988 |
| | (12) Talks 1990 - First Men's Forum Meeting back | 1990 |
| B1996-0008/018 | | |
| | (01) Seminars NAL 196-? Unidentified Notebook 196-? | 196-? |
| | (02) Seminars 1963-65 | 1963-1965 |
| | (03) Verenna and LesHouches Seminars [1965?] | 1965 |
| | (04) I Seminars and Conferences Autumn 1965 | 1965 |
| | (05) II Seminars and Conferences General '65-'67 | 1965-1967 |
| | (06) Vienna Conference Notes [XIV International Conference on High Energy Physics] | 1968 |
| | (07) XIIIa McGill '69 - Boulder '69 Seminars | 1969 |
| | (08) [Seminars 1978? - H.L. Welsh Lectures] | 1978 |
| | (09) [2 Seminar note books 1978?] | 1978 |
| | (10) ARGUS III and ARGUS IV | 1988 |
| | (11) Talks - Uppsala and Aspen '88 | 1988 |
| | (12) [Loose notes, seminars - 1983-1989] | 1983-1989 |
| B1996-0008/019 | | |
| | (01) Ph.D. Thesis Calculations [Notebook] 1989-90 | 1989-1990 |
| | (02) Conferences and Seminars 1991 | 1991 |
| | (03) Correspondence re. colloquia and seminars, 1980-87 | 1980-1987 |
| | (04) 4 notebooks Unidentified, n.d. | n.d |

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Appendix 3 Series 6: Colloquia, Seminars and Conferences

| Acc./Box | Description | Dates |
|-----------------|---|--------------|
| B2005-0023/006 | | |
| | (07) Equinox Article | n.d. |
| | (08) Popular Talks | n.d. |
| | (09) Concordia Talk | n.d. |
| | (10) Talks on High Energy Physics | 1965-1976 |
| | (11) Colloquia and Seminars – misc. | 1966-1974 |
| | (12) Canadian Association of Physicists lectures | 1967-1968 |
| | (13) Science Forum Articles | 1976 |
| | (14) Kaon Factory Workshop | 1979 |
| B2005-0023/007 | | |
| | (01) Presentation B-Mesons Decay.... | 198- |
| | (02) CHEER talks | 198- |
| | (03) V Talks (Neutrinos) | 1981 |
| | (04) Physics in Collision conference | 1984 |
| | (05) Banff Summer Institute | 1987 |
| | (06) Rare Decay Symposium | 1988 |
| | (07) Senate Science Forum | n.d. |
| B2015-0019/001 | | 196- |
| | (02) Early research notebook – 1960s | 196- |
| | (03) Notebook – Seminars 89- & writing 2008 ; Seminars 1985-1991, General Physics and Colloquia | 1981-1991 |
| | (04) Argus Results and Related Data; Colloquia 1991; 1 unidentified notebook | 196-? - 1991 |

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Appendix 4

Series 10 Photographs

| Acc./Box | Description | Extent | Dates |
|-----------------|--|----------------|----------------|
| B1996-0008/001P | (01) J.D. Prentice – general | 6 prints | 1975-1979 |
| | (02) U of T physics lab | 13 col. prints | 197-? |
| | (03) Fermi NAL – canoe race | 2 b&w prints | 1976 |
| | (04) E531 | 3 prints | ca. 1976-1980 |
| | (05) CHEER - model | 1 col print | ca. 1980 |
| | (06) ARGUS installation | 3 b&w prints | 1982 |
| B2005-0023/001P | (01) U of T Physics Lab | 5 b&w prints | 196-? or 197-? |
| | (02) FermiLab, California | 7 col. prints | 1970 |
| | (03) FermiLab, Equipment used by UofT physicists | 1 col. print | 197- |
| | (04) National Accelerator Laboratory (NAL) | 2 col. prints | 1971 |
| | (05) Physicists Canoe Race at NAL | 6 b&w prints | 1976 |
| | (06) DESY Lab in Germany, Aerial views | 2 col. prints | n.d. |
| | (07) DESY – diagram of spectrometer | 3 col. prints | n.d. |
| | (08) DESY – ARGUS | 12 col. prints | 198- |
| | (09) DESY – unidentified scientist in lab | 1 col. prints | n.d. |
| | (10) ARGUS –Micro Vertex detector | 11 col. prints | 198- |
| | (11) Unidentified physicists? | 1 col. print | n.d. |
| B2005-0023/002P | (01) Panoramic Group photograph of the University of Toronto Dept of Physics | 1 b&w print | 1959 |
| | (02) ARGUS – Micro Vertex detector prototype | 3 col. prints | 198- |