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**Boris Stoicheff fonds**

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Marnee Gamble and David Duncan, 2012

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## Contents

<b>Biographical note.....</b>	<b>3</b>
<b>Scope and content .....</b>	<b>5</b>
<b>Series 1: Biographical .....</b>	<b>6</b>
<b>Series 2: Correspondence .....</b>	<b>6</b>
<b>Series 3: Publications.....</b>	<b>7</b>
<b>Series 4: Books .....</b>	<b>8</b>
4.1 <i>Gerhard Herzberg: an Illustrious Life in Science</i> .....	8
4.2 <i>Riddle of Light</i> .....	9
<b>Series 5: Conferences and Meetings.....</b>	<b>9</b>
<b>Series 6: Research .....</b>	<b>10</b>
6.1   Research – General .....	10
6.2   Early Raman Spectra Research .....	11
<b>Series 7: Talks, Addresses, Articles, and Remarks .....</b>	<b>11</b>
<b>Series 8: Professional Associations and Activities.....</b>	<b>12</b>
<b>Series 9: University of Toronto .....</b>	<b>13</b>
9.1   University Committees .....	13
9.2   Department of Physics.....	13
9.3   Massey College.....	13
<b>Series 10: Ontario Laser and Lightwave Research Centre .....</b>	<b>14</b>
<b>Series 11: Teaching .....</b>	<b>14</b>
<b>Series 12: Correspondence with Students .....</b>	<b>15</b>
<b>Series 13: Graphic .....</b>	<b>15</b>
<b>Appendices .....</b>	<b>17</b>
Appendix 1 - List of Publications.....	17
Appendix 2 - File Listing - Series 5: Conferences and Meetings .....	32
Appendix 3 - File Listing - Series 8: Professional Associations and Activities .....	41
Appendix 4 - File Listing - Series 10: Ontario Laser and Lightwave Research Centre.....	44

## Biographical note

Boris P. Stoicheff was a Professor Emeritus in the Department of Physics at the University of Toronto, a leading authority on Ramen Spectroscopy, and a pioneer in the use of lasers in optical physic and spectroscopy. Stoicheff was also the President of the Optical Society of America and the Canadian Association of Physicists, as well as being a member of the Order of Canada. During his career, Stoicheff published more than 180 papers on the subject of lasers, optical physics and spectroscopy, and was the author of a biography on the life and work of physicist Gerhard Herzberg.

Boris Peter Stoicheff was born in Bitola, Macedonia in 1924. In 1931 he and his family immigrated to Canada and settled in Toronto. Stoicheff attended Jarvis Collegiate Institute (1938-1943) where he excelled in both mathematics and in athletics (he was ranked fifth in Ontario for cross-country while in high school). After high school Stoicheff enrolled in the Engineering Physics program at the University of Toronto where he obtained his B.A.Sc. (1947) and his M.A. (1948) in physics. In 1950, under the supervision of Professor Harry Welsh, Stoicheff completed his Ph.D. on the subject of *Ramen Spectroscopy of Gases at High Temperature* at the University of Toronto.

In the early 1950s, Stoicheff began working for the National Research Council (N.R.C.) in Ottawa under the general direction of Gerhard Herzberg (Herzberg would go on to win the Noble Prize for Chemistry in 1971). During his time at the National Research Council, Stoicheff became well-known in the world of optical physics for his very precise, high-resolution Ramen spectra and for his patience in obtaining the highest quality spectroscopic results. In all, Stoicheff published more than thirty papers on the topic of Ramen Spectroscopy while working for the National Research Council. In 1954 Stoicheff married Joan Ambridge and in 1956 they had a son, Peter. Near the end of his time at the N.R.C., Stoicheff took an interest in Brillouin scattering; more specifically, how the emerging technology of MASERS and LASERS could aid in carrying out Brillouin spectroscopy. In the early 1960s Stoicheff constructed the first (ruby) laser in Canada. The use of lasers in spectroscopy would become Stoicheff's primary area of research for the remainder of his career.

After fourteen years at the N.R.C. Stoicheff accepted a position at the University of Toronto as a Professor of Physics.; in 1977 he was promoted to the position of University Professor. From 1964 until his retirement in 1989 Stoicheff worked out of his lab at the University of Toronto's Department of Physics, where he completed pioneering research in the area of optical spectroscopy. During his career Stoicheff held numerous positions on various university, national and international committees and boards including: Member of Council of the Royal Society of Canada, Vice-President of the Canadian Association of Physicists, Canadian Correspondent to The Royal Society (London), and

Co-Chairman of the 5<sup>th</sup> International Conference on Laser Spectroscopy, among many others. Stoicheff also received a number of honours and awards. He was a Fellow of the Royal Society of Canada, Honourary Fellow of the Indian Academy of Sciences, U.K./Canada Rutherford Lecturer for The Royal Societies of London and Canada, the recipient of Centennial Medal of Canada, the Canadian Association of Physics Medal of Achievement, and several honorary degrees from Canadian and international Universities.

After his retirement, Stoicheff remained active in the scientific community and continued to lecture, publish and research in the field of optical physics and spectroscopy. In addition to physics, Stoicheff had a great interest in the humanities, and pursued subjects such as religion, psychology, art and biography. After his retirement, Stoicheff created a course titled "The Riddle of Light" where students explored both scientific and artistic interpretation of light. He was also the author of a biography on the life and career of his former supervisor and mentor Gerhard Herzberg titled *Gerhard Herzberg: A Illustrious Life in Science*, published in 2002. Boris Stoicheff died in Toronto on April 15, 2010.

## Scope and content

1950-2008

12.32 m of multimedia records (97 boxes)

This fonds is a very complete documentation of all aspects of Prof. Stoicheff career. His relationship with colleagues at the University, nationally and internationally, is evident throughout but especially in the Series 1 Correspondence, Series 8 Professional Association and Activities, and Series 9 University of Toronto. Series 1 Correspondence also documents his mentoring role and his role as a referee and evaluator of peer and student work. This is also documented in Series 11 Teaching, Series 12 Correspondence with Students and Series 8 Professional Associations and Activities. His research activities are extensively documented not only in Series 6 Research but in Series 10 Ontario Laser and Lightwave Research Centre and in Series 3 Publications. Finally, his published academic contributions as well as his less formal contributions are documented in Series 3 Publications, Series 4 Books and Series 7 Talks, Addresses. Articles and Remarks.

**Access:** All files are open, with the exception of the following:

- Series 9 (University of Toronto): B2010-0025/076
  - o Records for Massey College Nominations Committee and Search Committee for Master are closed for 30 years from latest date of file activity.
- Series 12 (Correspondence with Students): B2010-0025/090 - /094
  - o Files closed for 30 years from latest date of file activity.

**Boxes:** B2010-0025/001 - /094

B2010-0025/001P - /003P

B2010-0025/001S - /002S

B2010-0025/001M

## **Series 1: Biographical**

1950-2008

0.13 m of textual records

Includes immigration papers, files relating to awards, honours, and birthdays. One file relates to Prof Stoicheff's Festschrift in the Canadian Journal of Physics in 2000. Finally, collected materials for an autobiography have been filed at the end.

Access: Open

Boxes: B2010-0025/001

## **Series 2: Correspondence**

1963-2008

2.34 m of textual records

This series consists of all forms of professional correspondence touching on all aspects of Prof. Stoicheff's career and relate directly to work and activities described in most other series. Examples of the types of correspondence include requests and acknowledgements to attend conferences, to present papers, to act as a referee or examiner, to accept positions on committees or board positions of associations. Also included is some correspondence and memos relating to professional associations, university offices and the Department of Physics. Stoicheff was also consulted regularly for research and career advice and to act as peer reviewer for appointments. This is also evident throughout the correspondence. Original arrangement of correspondence by year has been kept. There are two files of Letters of Recommendation filed at the end of this series.

Access: Open

Boxes: B2010-0025/002 - /019

<b>Box</b>	<b>Description</b>
B2010-0025/002	Correspondence, 1963-1967
B2010-0025/003	Correspondence, 1967-1969
B2010-0025/004	Correspondence, 1970-1971

Box	Description
B2010-0025/005	Correspondence, 1972-1975
B2010-0025/006	Correspondence, 1976-1978
B2010-0025/007	Correspondence, 1979-1981
B2010-0025/008	Correspondence, 1981-1983
B2010-0025/009	Correspondence, 1984-1985
B2010-0025/010	Correspondence, 1986-1987
B2010-0025/011	Correspondence, 1988-1990
B2010-0025/012	Correspondence, 1990-1992
B2010-0025/013	Correspondence, 1993-1994
B2010-0025/014	Correspondence, 1994-1996
B2010-0025/015	Correspondence, 1997-1999
B2010-0025/016	Correspondence, 1999-2001
B2010-0025/017	Correspondence, 2001-2003
B2010-0025/018	Correspondence, 2003-2005
B2010-0025/019	Correspondence, 2005-2008
B2010-0025/019	Letters of Recommendation

### Series 3: Publications

1963-2000

0.85 m of textual records

Includes immigration papers, files relating to awards, honours, and birthdays. One file relates to Prof Stoicheff's Festschrift in the Canadian Journal of Physics in 2000. Finally, collected materials for an autobiography have been filed at the end.

Access: Open

Boxes: B2010-0025/020 - /026

For a list of all publications documented in this series, [see Appendix 1](#).

## Series 4: Books

[198-]-2005

1.64 m of records

Research notes, draft manuscripts, correspondence with publisher, document Prof Stoicheff's book, *Gerhard Herzberg: an Illustrious Life in Science* (2002). Also included in this series is similar documentation for an unpublished book that Stoicheff was editing *The Riddle of Light* that was based on the Seminar course by the same name (see Series 10). While many of the seminar participants contributed to this manuscript, it was never published.

Access: Open

Boxes: B2010-0025/027 - /037

B2010-0025/002P

B2010-0025/001S

### 4.1 *Gerhard Herzberg: an Illustrious Life in Science*

Box	Description
B2010-0025/027	Research material related to Gerhard Herzberg
B2010-0025/028	<ul style="list-style-type: none"><li>• Research materials related to Gerhard Herzberg</li><li>• 1 file of miscellaneous</li></ul>
B2010-0025/029	Conferences, symposiums, and talks related to Gerhard Herzberg
B2010-0025/030	<ul style="list-style-type: none"><li>• Correspondence related to research</li><li>• Grants and Funding</li></ul>
B2010-0025/031	Correspondence and materials related to press, publication, and reviews
B2010-0025/032	Manuscript drafts – chapters 1-19
B2010-0025/033	<ul style="list-style-type: none"><li>• Manuscript drafts – chapters 20–prologue</li><li>• Corrections and comments</li><li>• Research notes – chapters 1-3</li></ul>
B2010-0025/034	<ul style="list-style-type: none"><li>• Research notes – chapters 4-11</li><li>• Research notes on various topics related to Gerhard Herzberg</li></ul>



Box	Description
B2010-0025/035	<ul style="list-style-type: none"><li>• Research notes on material from the National Archives related to Gerhard Herzberg</li><li>• Research notes on various topics related to Gerhard Herzberg</li></ul>
B2010-0025/002P	Collected photos

#### 4.2 *Riddle of Light*

Box	Description
B2010-0025/036	<ul style="list-style-type: none"><li>• Learning Life Learning Series, 1997</li><li>• Lecture Series Fall, 2000</li><li>• Correspondence with Contributors, 1998-2005</li><li>• Correspondence with Publishers, 1999-2005</li><li>• Abstracts of Chapters and Bios of Contributors, 2004?</li></ul>
B2010-0025/036	Draft chapters
B2010-0025/001S	Sound recordings of Riddle of Light Lectures – 10 cassettes, 1997

### Series 5: Conferences and Meetings

1953-2005

0.91 m of textual records

Records relating Stoicheff participation in conferences and meetings. Files contain correspondence, itineraries, agenda, conference program, list of attendees, notes. On occasion, files will contain the paper given by Stoicheff but most often these are found in Series 3.

Access: Open

Boxes: B2010-0025/038 - /044

See [Appendix 2](#) for a file listing.

## Series 6: Research

[195-]-[199-]

1.96 m of textual and graphic records

Access: Open

### 6.1 Research – General

[195-]-[199-]

1.24 m of textual and graphic records

Includes files on grants as well as research filed by topic. Files can contain notes, data, draft papers or lectures, photographs and correspondence.

Box	Description
B2010-0025/045	Grant files: Office of Naval Research , PRAI Fund, Connaught Grant
B2010-0025/046	Research on: Brillouin Scattering, 2 Photon Absorption, 2 Photo Doppler, Early Raman Effect research, Lasers without inversions
B2010-0025/047	Research on: Stimulated Raman Scattering, Raman Radiation, Raman Lasers, Maser Reports
B2010-0025/048	Research on: VUV, Thermonic Detector, Raman Effect, Masers, 2 Photon Laser, Ruby Maser, Anthracene,
B2010-0025/049	Research on: Optical Activity, Rydberg, Photo elastic Constant, Kr, Fe, Ly- $\alpha$ Source, Opt. pumping of Ar
B2010-0025/050	Research on: CO, Ar <sub>2</sub> , Light Scattering, Quantum well structures, Hydrogen, Kxx+K and Kxx + Rb
B2010-0025/051	Research on: Spectra (Ar <sub>2</sub> , Kr <sub>2</sub> , Xe <sub>2</sub> , Ne <sub>2</sub> ) , VUV and XUV laser, Highly Excited Atoms, SHG in Hydrogen, Pulsed Ar <sub>2</sub>
B2010-0025/052	Research on: CO spectra, Raman Spectroscopy "CARS", Counter intuitive pulses, Diffuse Interstellar Lines, DIBs, Ar & Ar <sub>2</sub> , DC discharge and jet expansion Spectra
B2010-0025/053	Jetex research - data  Research on: Hg Expt., Raman Spectra, Ar <sub>2</sub> Kr <sub>2</sub> Xe <sub>2</sub> lifetimes, VUV, XUV, Photoionization, XUV Lasers, Laser Produced Plasmas
B2010-0025/003P	Significant Spectra photos - framed

## **6.2 Early Raman Spectra Research**

[195-]

0.72 m of textual records

Includes original research data from the 1950s that documents Stoicheff 's research being part of a team of physicists at the National Research Council in Ottawa that developed techniques for high resolution Raman spectroscopy of gases and determined the structure of many molecules.

Boxes: B2010-0025/054 - /059

## **Series 7: Talks, Addresses, Articles, and Remarks**

1964-2004

0.33 m of textual records

Series contains informal talks and remarks given at meetings, convocations, retirements and other public events as well as articles written for publications like encyclopedia. These talks or articles were usually non- academic in nature and discuss his research in laser physics in terms that his audience of non-physicists could understand. The last box in this series documents Stoicheff's biography on Harry Welsh, a colleague in the Physics department.

Access: Open

Boxes: B2010-0025/060 - /062

## Series 8: Professional Associations and Activities

1967-2007

1.37 m of textual records and sounds and moving image

This series documents membership on various professional and academic bodies, consulting and commercial work, participation on government committees and advisory boards, as well as his role as reviewer for programs or referee for grants or appointments.

Access: Open

Boxes: B2010-0025/063 - /073

B2010-0025/001M

See [Appendix 3](#) for a file listing.

Description	Boxes
Association of Professional Engineers of Ontario	B2010-0025/063
Canadian Association of Physicists	B2010-0025/063
The Canadian Institute for Advanced Research	B2010-0025/064
National Research Council of Canada	B2010-0025/065
Royal Society of Canada	B2010-0025/066
International Union of Pure and Applied Physics	B2010-0025/067
Optical Society of America	B2010-0025/068
Royal Society (London)	B2010-0025/069
Government and Public Advisory Boards	B2010-0025/070
Consulting and Commercial Venture	B2010-0025/070 - /071
Other Associations, groups, activities	B2010-0025/072 - /073

## Series 9: University of Toronto

1970-2008

0.39 m of textual records

Documents Stoicheff's administrative role on various University committee or groups. Files can contain reports, agenda, minutes of meeting, correspondence.

Access: All files are open, with the exception of B2010-0025/076:

- Records of Massey College Nominations Committee and Search Committee for Master are closed for 30 years from latest date of file activity.

### 9.1 University Committees

Box	Description	Date range
B2010-0025/074	Chinese Laser Group	1974-1985
B2010-0025/074	Presidential Advisory Committee on Institutional Strategy	1982-1984
B2010-0025/074	Committee on Research	1980-1982
B2010-0025/074	Renewal	1986
B2010-0025/074	Report on Engineering Science	1970

### 9.2 Department of Physics

Boxes	Description	Date range
B2010-0025/074	Awards Committee	1983-1987
B2010-0025/074	Lab Space	1981-1994
B2010-0025/074	Laser Group – 6 files: meetings, grants/funding, workshops, staffing	1980-1993
B2010-0025/002S	Inaugural Lecture, McLennan Physical Laboratories by Prof. C. H. Towne, - reel to reel sound recording	14 Sep. 1967

### 9.3 Massey College

Boxes	Description	Date range
B2010-0025/075	General correspondence, Library Committee, Massey Luncheon, Who's Who at Massey	1978-2008
B2010-0025/076	Nominations Committee Search Committee for Master	1989-2004 1980-1987

## **Series 10: Ontario Laser and Lightwave Research Centre**

1986-1995

1.04 m of textual records

This multidisciplinary research center was originally set up as one of the Ontario Centres of Excellence. Its principal investigators were all University of Toronto faculty. Prof Stoicheff was the founding executive director from 1987-1991. One of the Centre's key goals was to bring together the academic community with the business community so as to further find application and markets for these new technologies.

Access: Open

Boxes: B2010-0025/077 - /084

See Appendix 4 for a file listing.

## **Series 11: Teaching**

1970-2003

0.65 m of textual records

This series documents some of the courses that Prof. Stoicheff taught at different time periods.

Access: Open

Boxes: B2010-0025/085 - /089

<b>Boxes</b>	<b>Description</b>	<b>Date range</b>
B2010-0025/085	Phys 150 – Lecture notes	1980s
B2010-0025/086	Phys 350 – Lecture notes, handouts, course outlines	1979-1982
B2010-0025/087	Phys 355 – mainly lectures	1980s
B2010-0025/087	Phys 356 – 1 file, problem set and lecture	1983
B2010-0025/087	Phys 358 – Course admin files (outlines, assignments, test, assignments) and lectures	2005
B2010-0025/088	Phys 456 – Lectures	1981?
B2010-0025/088	Phys 3120 – Lectures and problem sets.	1980s
B2010-0025/088	Survey Course – 6000 – Lectures	1970s
B2010-0025/089	Sci 199Y – Riddle of Light course – Faculty of Arts and Science	1991-2003

## Series 12: Correspondence with Students

[196-]-[200-]

0.65 m of textual records

This series documents Stoicheff's ongoing supervision and mentorship with graduate students. Files are arranged by students' surname. There is one file of correspondence with Post-Doctoral students for the 1980s.

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

Boxes: B2010-0025/090 - /094

Boxes	Description
B2010-0025/090	Students – A - G
B2010-0025/091	Students - H - K
B2010-0025/092	Students – L - P
B2010-0025/093	Students – R – T
B2010-0025/094	Students – U – Z; Correspondence with Post -Doctoral Fellows, 1980-1987

## Series 13: Graphic

[195-]-[199-]

118 slides

71 photographs

49 negatives

Access: Open

Boxes: B2010-0025/001P

File number	Description	Date range
B2010-0025/001P (01)-(04)	Portraits of Stoicheff, Stoicheff in Lab,	196- 199-
B2010-0025/001P (05)	Opening of the Lab at Western	1970
B2010-0025/001P (06)	University of Arizona – award	1980?
B2010-0025/001P (07)	Dinner for Stoicheff? – Dept. of Physics?	198-?

<b>File number</b>	<b>Description</b>	<b>Date range</b>
B2010-0025/001P (07a)	Stoicheff and Herzberg	1991
B2010-0025/001P (08)	First Laser Built in Canada, National Research Council	1960-1961
B2010-0025/001P (09)	Construction of the McLennan Labs and opening – slides	1964-1967
B2010-0025/001P (10)	Linac Lab Opening - slides	1966
B2010-0025/001P (11)	Laser Laboratory	1971
B2010-0025/001P (12)	Laser Lab Conference	1990
B2010-0025/001P (13)-(14)	Laser Lab – Staff and Equipment	1990
B2010-0025/001P (15)	Laser Lab – Negatives	1990
B2010-0025/001P (16)	Gordon Research Conference, Meridan, New Hampshire	1968
B2010-0025/001P (17)	Laser Spectroscopy Conference	June 1973
B2010-0025/001P (18)	Stoicheff at Conferences	197-
B2010-0025/001P (19)	5th International Conference on Spectral Line Shapes	July 1980
B2010-0025/001P (20)	Conferences – slides	1963-198-
B2010-0025/001P (21)	Portrait, C.V. Raman – Nobel Prize in Physics, 1930	193-
B2010-0025/001P (22)	Portrait, Charles H. Townes – Nobel Prize in Physics, 1964	196-?
B2010-0025/001P (23)	Harry L. Welsh and Gerald Hertzberg	1967
B2010-0025/001P (24)	Physicists – Stacie?	1971
B2010-0025/001P (25)	Apparatus for the Excitation of Raman Spectra of Gases	195?



## Appendices

### Appendix 1 - List of Publications

Box number	Publication number on CV	Title of publication
B2010-0025/020	40	Characteristics of Stimulated Raman Radiation Generated by Coherent Light, B.P. Stoicheff, <i>Physics Lett.</i> 7, 186-188 (1963).
B2010-0025/020	41	Stimulated Raman Scattering, B.P. Stoicheff, <i>Course XXXI, Proc. International School of Physics, Enrico Fermi</i> , 1963 (C H. Townes and P.A. Miles, Eds.) Academic Press, New York (1964). pp. 306-325.
B2010-0025/020	43	Stimulated Brillouin Scattering and Coherent Generation of Intense Hypersonic Waves, R.Y. Chiao, C.H. Townes and B.P. Stoicheff, <i>Phys. Rev. Lett.</i> , 12, 592-595 (1964).
B2010-0025/020	55	Angular Distribution of "Surface" Radiation in Stimulated Raman Scattering, F. Shimizu and B.P. Stoicheff, <i>IEEE J. Quantum Electron.</i> , QE4, 425-426 (1968).
B2010-0025/020	56	Raman Linewidths for Stimulated Threshold and Gain Calculations, W.R.L. Clements and B.P. Stoicheff, <i>Appl. Phys. Lett.</i> , 12, 246-248 (1968).
B2010-0025/020	57	Spectrum of Light Scattering from Thermal Shear Waves in Liquids, G.I.A. Stegeman and B.P. Stoicheff, <i>Phys. Rev. Lett.</i> , 21, 202-206 (1968).
B2010-0025/020	61	High-Resolution Raman Spectroscopy of Gases with Laser Excitation, W.R.L. Clements and B.P. Stoicheff, <i>J. Mol. Spectrosc.</i> , 33, 183-186 (1970).
B2010-0025/020	62	High-Speed Spectroscopy Using the <i>Inverse</i> Raman Effect, R.A. McLaren and B.P. Stoicheff, <i>Appl. Phys. Lett.</i> 16, 140-142 (1970).

Box number	Publication number on CV	Title of publication
B2010-0025/020	65	Brillouin Scattering and Dispersion and Attenuation of Hypersonic Thermal Waves in Liquid Carbon Tetrachloride, G.I.A Stegeman, W.S. Gornall, V. Voiterra and B.P. Stoicheff, J. Acoust. Soc. Am., 49, 979-993 (1971).
B2010-0025/020	66	Brillouin Spectra of Ethyl Ether and Carbon Disulphide, S. Gewurtz, W.S. Gornall and B.P. Stoicheff, J. Acoust. Soc. Am., 49, 994-1000 (1971).
B2010-0025/020	67	The Brillouin Spectrum and Elastic Constants of Xenon Single Crystals, W.S. Gornall and B.P. Stoicheff, Solid State Commun., 8, 1529-1533 (1970).
B2010-0025/020	68	Raman Intensity Measurements of the Fermi Diad $\nu_1' 2\nu_2$ in $^{12}\text{CO}_2$ and $^{13}\text{CO}_2$ , H.E. Howard-Lock and B.P. Stoicheff, J. Mol. Spectrosc., 37, 321-326 (1971).
B2010-0025/020	69	Determination of the Elastic Constants of Xenon Single Crystals by Brillouin Scattering, W.S. Gornall and B.P. Stoicheff, Phys. Rev., B 4, 4518-4535 (1971).
B2010-0025/020	70	Brillouin Spectra of Rare Gas Single Crystals, B.P. Stoicheff, W.S. Gornall, H. Kieffe, D. Landheer and R.A. McLaren, in <i>Light Scattering in Solids</i> (M. Balkanski, Ed.) Flammarion Sciences, Paris (1971), pp. 450-452.
B2010-0025/020	71	The Depolarized Doublet Spectra of Molecular Liquids: Comparison of Theory and Experiment, G.D. Enright, G.I.A. Stegeman and B.P. Stoicheff, J. de Phys., 33, C1 207213 (1972).
B2010-0025/020	72	Elastic Constants of Argon and Neon by Brillouin Scattering from Single Crystals Near Their Triple Points, S. Gewurtz, H. Kieffe, D. Landheer, R.A. McLaren and B.P. Stoichett, Phys. Rev. Lett., 29, 1454-59, (1972)
B2010-0025/020	74	Spectrum of Light Scattering from Thermal Shear Waves in Liquids, G.I.A. Stegeman and B.P. Stoichett, Phys. Rev., A 7, 1160-1177 (1973).

Box number	Publication number on CV	Title of publication
B2010-0025/020	75	Brillouin and Raman Spectroscopy with Lasers, B.P. Stoicheff, in <i>Fundamental and Applied Laser Physics, Proceedings of the Esfahan Symposium</i> Aug. 29 - Sept. 5, 1971, (M.S. Feld, A. Javan and N. Kurnit, Eds.), John Wiley and Sons, New York (1973), pp. 573-611.
B2010-0025/020	76	Observed Deterrence's in Zero and First Sound Propagation in Solid Krypton, H.E. Jackson, D. Landheer, and B.P. Stoicheff, <i>Phys. Rev. Lett.</i> , <b>31</b> , 296-298 (1973)
B2010-0025/020	77	The Depolarized Brillouin Spectrum of Liquid CS <sub>2</sub> , G. Enright and B.P. Stoicheff, <i>J. Chem. Phys.</i> , <b>60</b> , 2536-2539 (1974).
B2010-0025/020	78	Nonlinear Refractive Index and d.c. Kerr Constant of Liquid CS <sub>2</sub> at 10.6 $\mu$ m, P. Thomas, A. Jares and B.P. Stoicheff, <i>IEEE J. Quantum Electron.</i> , <b>QE-10</b> , 493-494 (1974).
B2010-0025/020	79	Elastic Constants of Argon Single Crystals Determined by Brillouin Scattering, S. Gewurtz and B.P. Stoicheff, <i>Phys. Rev.</i> , <b>B 10</b> , 3487-3499 (1974).
B2010-0025/020	80	Brillouin Linewidth and the Attenuation of Sound in Liquid Argon, S.C. Rand and B.P. Stoicheff, <i>Phys. Lett.</i> , <b>48A</b> , 355-356 (1974).
B2010-0025/020	81	Elastic Constants of Neon Single Crystals Determined by Brillouin Scattering, R.A. McLaren, H. Kieffe, D. Landheer, and B.P. Stoicheff, <i>Phys. Rev.</i> , <b>B 11</b> , 1705-1717 (1975).
B2010-0025/020	82	Absolute Intensity Measurements of Brillouin Spectra of Liquid and Solid Krypton, and Determination of the Elasto-Optic Constants, Y. Kato and B.P. Stoicheff, <i>Phys. Rev.</i> , <b>B 11</b> , 3984-3989 (1975).
B2010-0025/020	83	Light Scattering from Shear Modes in Liquid Salol, G.D. Enright and B.P. Stoicheff, <i>J. Chem. Phys.</i> , <b>64</b> , 3658-3665 (1976).

Box number	Publication number on CV	Title of publication
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B2010-0025/020	89	On the Differing Values of the Elastic Constants of Xenon Determined by Brillouin and Neutron Scattering, S.C. Rand, B.S. Rao, G.D. Enright, and B.P. Stoicheff, Phys. Rev., B 15, 2352-2354 (1977).
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B2010-0025/021	92	Brillouin Spectroscopy and Elastic Constants, B.P. Stoicheff, Chapter 16, in <i>Rare Gas Solids</i> , (M.L. Klein and J.A. Venables, Eds.) Academic Press, (1977) pp. 979-1019.

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Box number	Publication number on CV	Title of publication
B2010-0025/021	108	Radiative Lifetimes of the B' 2L <sub>u</sub> State ( $v' = 0$ to 8) of NO Obtained by VUV Laser Excitation, J.R. Banic, R.H. Lipson, T. Efthimiopoulos and B.P. Stoicheff, Optics Lett., 6, 461-463 (1981).
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B2010-0025/021	114	Study of the Characteristics of Thermionic Ionization Detectors, D.C. Thompson and B.P. Stoicheff, Rev. Sci. Instrum. 53, 822-828 (1982).
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Box number	Publication number on CV	Title of publication
B2010-0025/021	117	Generation of Tunable Coherent Vacuum-Ultraviolet Radiation, W. Jamroz and B.P. Stoicheff, in <i>Progress in Optics</i> , Vol. 20, (Emil Wolf Ed.) North-Ho[land Publishing, Amsterdam (1983), pp. 325-380.
B2010-0025/022	118	Raman Spectroscopy, B.P. Stoicheff, in <i>Problems In Molecular Structure</i> (G.J. Bullen and D.J. Greenslade, Eds.) Pion Ltd., London (1983), pp. 159-172
B2010-0025/022	119	Doppler-Free Two-Photon Absorption Spectrum of Cesium, M.S. O'Sullivan and B.P. Stoicheff, <i>Can. J. Phys.</i> , 61, 940-948 (1983).
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B2010-0025/022	122	Intensity Ratios of $^2D_{3/2}$ , $^5/2$ - $^2S$ Doublets in the Two-Photon Absorption Spectrum of Rb and Cs, F. Arqueros, P.E. LaRocque, M.S. O'Sullivan and B.P. Stoicheff, <i>Opt. Lett.</i> , 9, 82-84 (1984).
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B2010-0025/022	130	Tunable XUV Radiation from 105 to 87.5 nm Using Hg Vapor, P.R. Herman and B.P. Stoicheff, <i>Opt. Lett.</i> , 10, 502-504 (1985)
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B2010-0025/022	133	Vacuum Ultraviolet Laser Spectroscopy III: Laboratory Sources of Coherent Radiation Tunable from 105 to 175 nm Using Mg, Zn, and Hg Vapors, P.R. Herman, P.E. LaRocque, R.H. Lipson, W. Jamroz and B.P: Stoicheff, <i>Can. J. Phys.</i> , 63, 1581-1588 (1985).

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B2010-0025/022	134	Vacuum Ultraviolet Laser Spectroscopy IV: Spectra of Kr <sub>2</sub> and Constants of the Ground and Excited States, P.E. LaRocque, R.H. Lipson, P.R. Herman and B.P. Stoicheff, J. Chem. Phys. 84, 6627-6641 (1986)
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B2010-0025/023	145	Pressure Shifts and Broadenings of Rb Rydberg States by Ne, Kr, and H <sub>2</sub> , D.C. Thompson, E. Kammermayer, B.P. Stoicheff, and E. Weinberger, Phys. Rev., A36, 2134-2141 (1987)
B2010-0025/023	146	Radiative Lifetimes of Xe <sub>2</sub> , Kr <sub>2</sub> and Ar <sub>2</sub> Excimers and Dependence on Internuclear Distance, B.P. Stoicheff and A.A. Madej, in <i>Laser Spectroscopy VII</i> (W. Persson and S. Svanberg, Eds.) Springer-Verlag, Heidelberg (1987), pp 208-211.
B2010-0025/023	147	Tunable Coherent Sources for Vacuum Ultraviolet Spectroscopy, B.P. Stoicheff, in <i>Frontiers of Laser Spectroscopy of Gases</i> (A.C.P. Alves, J.M. Brown, and J.M. Hollas, Eds.) Kluwer Academic Publ. Dordrecht, (1987) pp. 63-88.
B2010-0025/023	148	Vacuum Ultraviolet Laser Spectroscopy V: Rovibronic Spectra of Ar <sub>2</sub> and Constants of the Ground and Excited States, P.R. Herman, P.E. LaRocque, and B.P. Stoicheff, J. Chem. Phys. 89, 4535-4549 (1988)
B2010-0025/023	149	Vacuum Ultraviolet Laser Spectroscopy VI: Radiative Lifetimes of A <sub>1u</sub> States of Ar <sub>2</sub> , Kr <sub>2</sub> , Xe <sub>2</sub> , and Dependence on Internuclear Distance, A.A. Madej and B.P. Stoicheff, Phys. Rev., A38, 3456-3466 (1988).
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B2010-0025/023	152	Efficient Population Inversion in Excimer States by Supersonic Expansion of Discharge Plasmas, T. Efthimiopoulos, B.P. Stoicheff, and R.I. Thompson, <i>Opt. Lett.</i> , 14, 624-626 (1989).
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B2010-0025/023	154	VUV and XUV Excimer Lasers Using Jet Discharges With Supersonic Cooling, B.P. Stoicheff and T. Efthimiopoulos, in <i>Laser Spectroscopy IX</i> (M.S. Feld, J.E. Thomas and A. Mooradian, Eds.) Academic Press inc., Boston (1989) pp. 258-261.
B2010-0025/023	155	Second-Harmonic Generation at Lyman- $\alpha$ in Atomic Hydrogen, L. Marmet, K. Hakuta and B.P. Stoicheff, <i>Opt. Lett.</i> , 16, 261-263 (1991).
B2010-0025/023	156	Electric-Field-Induced Second-Harmonic Generation with Reduced Absorption in Atomic Hydrogen, K. Hakuta, L. Marmet and B.P. Stoicheff, <i>Phys. Rev. Lett.</i> , 66 596-599 (1991 ).
B2010-0025/023	157	Supersonic Cooling of Rare-Gas Excimers Excited in DC Discharges, P. Dube, T. Efthimiopoulos, M.J. Kiik, B.P. Stoicheff, <i>Opt. Letters</i> 16, 1887-1889 (1991).
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B2010-0025/024	163	The Dissociation Energy of Deuterium, A. Balakrishnan and B.P. Stoicheff, J. Mol. Spectrosc. 156, 517-518 (1992)
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B2010-0025/024	167	Nonlinear Optical Generation With Electromagnetically Induced Transparency in Atomic Hydrogen, K. Hakuta, G. Z. Zhang, M. Ohta, R. I. Thompson, and B. P. Stoicheff, in <i>Laser Spectroscopy XI</i> , (L. Bloomfield, T. Gallagher, and D. Larson, Eds.) Am. Inst. Phys., New York, (1994).pp. 279-280.
B2010-0025/024	168	Harry Lambert Welsh, in <i>Biographical Memoirs of Fellows of the Royal Society</i> The Royal Society, London, 39 438-450 (1994).
B2010-0025/024	169	Dissociation Energies of the Hydrogen and Deuterium Molecules, A. Balakrishnan, V. Smith, and B. P. Stoicheff, Phys. Rev. A, 49, 2460-2469 (1994)

Box number	Publication number on CV	Title of publication
B2010-0025/024	170	Nonlinear Generation of 103 nm Radiation With Electromagnetically-Induced Transparency in Atomic Hydrogen, R. I. Thompson, B. P. Stoicheff, G. Z. Zhang, and K. Hakuta, <i>Quantum Opt.</i> , 6, 349-358 (1994).
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B2010-0025/024	174	Time-Dependent Effects in Nonlinear Generation of VUV Radiation With Induced Transparency, R. I. Thompson, B. P. Stoicheff, G. Z. Zhang, and K. Hakuta, <i>Appl. Phys. B</i> 60, S129-S139 (1995).
B2010-0025/024	175	Sum-Frequency Generation Using Strong-Field Coupling and Induced Transparency in Atomic Hydrogen, G. Z. Zhang, M. Katsuragawa, K. Hakuta, R. I. Thompson, and B. P. Stoicheff, <i>Phys. Rev. A</i> 52, 1584-93 (1995)
B2010-0025/025	176	Spectroscopic Study of Vibrational Relaxation of Rare-Gas Excimers Formed in a DC Discharge With Supersonic Expansion, P. DUBS, M.J. Kiik, and B. P. Stoicheff, <i>J. Chem. Phys.</i> 103, 7708-7721 (1995).

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B2010-0025/025	177	Townes and Nonlinear Optics, B.P. Stoicheff, in <i>Amazing Light - A Volume Dedicated to Charles Hard Townes on his 80th Birthday</i> (R.Y. Chiao, Ed.) Springer, New York (1996) pp. 621-625.
B2010-0025/025	179	Nonlinear Generation of Extreme Ultraviolet Radiation in Atomic Hydrogen Using Electromagnetically-Induced Transparency, G.Z. Zhang, D.W. Tokaryk, and B.P. Stoicheff, <i>Phys. Rev. A</i> 56, 813-819 (1997).
B2010-0025/025	182	Nonlinear Optical Generation in a Hydrogen Discharge, D.W. Tokaryk, GZ. Zhang, and B.P. Stoicheff, <i>Phys. Rev. A</i> 59, 3116-3119 (1999).
B2010-0025/025	185	Effect of Counterintuitive Time Delays in Nonlinear Mixing, R.I. Thompson, L. Marmet, B.P. Stoicheff, <i>Optics Letters</i> , 25, 120-122 (2000).
B2010-0025/025	187	On the Dissociation Energy of Molecular Hydrogen, B.P. Stoicheff, <i>Can. J. Phys.</i> 79, 165-172 (2000).
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B2010-0025/025		"Gerhard Herzberg" Royal Society London, 2003
B2010-0025/026		Bound Volume - Publications of B. P. Stoicheff, 1951-1959
B2010-0025/026		Bound Volume - Publications of B. P. Stoicheff, 1960-1970.
B2010-0025/026		Bound Volume - Publications of B. P. Stoicheff, 1970-1979
B2010-0025/026		Bound Volume - Publications of B. P. Stoicheff, 1990-2000

**Appendix 2 - File Listing - Series 5: Conferences and Meetings**

<b>Box number</b>	<b>File title</b>	<b>Date range</b>
B2010-0025/038	Papers presented at meetings (misc.)	1953-1963
B2010-0025/038	Papers presented at meetings (misc.)	1967-78
B2010-0025/038	Papers presented at meetings (misc.)	1971-1974
B2010-0025/038	Miscellaneous materials related to meetings and conferences, 1968-1980 – contains notes from various conferences and meetings, and brochures.	1968-1980
B2010-0025/038	Esfahan Symposium on Fundamental and Applied Laser Physics, Esfahan, Iran August 29 – September 5, 1971.	1971
B2010-0025/038	Seventh International Quantum Electronics Conference, Montréal, Quebec May 8-11, 1972.	1969-1973
B2010-0025/038	8th International Quantum Electronics Conference, San Francisco, California June 10-13, 1974.	1972-1975
B2010-0025/038	U.S.S.R Visit – U.S.S.R. academy of Sciences, February 19 – March 15, 1975.	1973-1975
B2010-0025/038	Turntable Lasers and Application, Loen, Norway June 7-11, 1976.	1976
B2010-0025/038	3rd International Conference on Laser Spectroscopy, Jackson Lake Lodge, Wyoming July 4-8, 1977.	1977
B2010-0025/038	U.S.-Japan Seminar on Laser Spectroscopy, Hakone, Japan September 5-7, 1977	1976-1978
B2010-0025/039	6th International Conference on Raman Spectroscopy, Bangalore, India September 4-9, 1978	1978
B2010-0025/039	Symposium on Solid Methane, McMaster University, Hamilton Ontario October 13-14, 1978 – contains paper.	1978
B2010-0025/039	Materials related to Stoicheff's 1979 trip to Yugoslavia – contains correspondence and papers.	1979-1985
B2010-0025/039	Colloquium on Molecular Spectroscopy, Ottawa, Ontario June 12-14, 1980.	1979-1980



Box number	File title	Date range
B2010-0025/039	12th Australian Spectroscopy Conference, University of New South Wales, New South Wales, Australia August 25-29, 1980.	1979-1980
B2010-0025/039	Nonlinear Laser Spectroscopy. Kauai, Hawaii September 8-12, 1980.	1977-1980
B2010-0025/039	Symposium to Celebrate the 65th Birthday of C. H. Townes, University of California, San Diego, California July 28-30, 1980.	1979-1980
B2010-0025/039	Sergio Porto Memorial Symposium, Rio de Janeiro, Brazil June 29 - July 3, 1980.	
B2010-0025/039	5th International Conference on Laser Spectroscopy, Jasper, Alberta June 29 – July 3, 1981.	1980-1981
B2010-0025/039	Election to the Macedonian Academy of Science, Skopje, Yugoslavia October 7, 1982 – contains talk.	1980-1982
B2010-0025/039	Summer School Lectures (2 Parts), Erice, Sicily September 23 – October 3. 1982.	1982
B2010-0025/039	NATO Advanced Study Institute: Physics of New Laser Sources, July 11-21, 1984 – contains some overhead slides.	1984
B2010-0025/039	Optical Society of America Annual Meeting, San Diego, California October 29 – November 2, 1984 – contains abstract.	1984
B2010-0025/039	China Visit, Shanghai, China June 16-20, 1985	1984-1985
B2010-0025/039	7th International Conference on Laser Spectroscopy, Maui, Hawaii June 24-28, 1985.	1985
B2010-0025/039	Correspondence re: Exchange Agreement of National Research Council and Academia Sinica (Hefei Anhui, China), 1986	1986
B2010-0025/039	International Conference on Quantum Electronics, San Francisco, California June 9-13, 1986 – contains abstract.	1985-1986

Box number	File title	Date range
B2010-0025/040	10th International Conference on Atomic Physics, Tokyo, Japan August 24-30, 1986 – contains reports and lecture slides.	1985-1986
B2010-0025/040	10th International Conference on Raman Spectroscopy, Eugene, Oregon August 31 – September 1986 – contains paper.	1986
B2010-0025/040	Engineering Foundation Conference: Future Prospects and Application for U.V. and V.U.V. Lasers, Santa Barbara California February 22-27, 1987 – contains paper.	1986-1987
B2010-0025/040	NATO-Advanced Study Institutes: Frontiers of Laser Spectroscopy of Gases, Torres Vedras, Portugal March 30-April 10, 1987.	1984-1987
B2010-0025/040	8th International Conference on Laser Spectroscopy, Are, Sweden June 22-26, 1987.	1986-1987
B2010-0025/040	Optoelectronics: 1990 and Beyond, Killarney, Ireland May 22-26, 1988.	1987-1989
B2010-0025/040	Tau Beta Pi Symposium, Iowa City, Iowa March 10, 1988.	1987-1988
B2010-0025/040	France 1988	1988
B2010-0025/040	Adriatico Research Conference on Frontier Sources for Frontier Spectroscopy, Trieste, Italy August 30 - September 2, 1988 – contains abstract.	1988
B2010-0025/040	Trends in Quantum Electronics, Bucharest, Romania August 30 – September 3, 1988 – contains abstract	1987-1988
B2010-0025/040	Lasers and Electro-Optics Annual Meeting, Santa Clara California November 2-4, 1988 – contains abstract and paper.	1988
B2010-0025/040	Short Wavelength Coherent Radiation: Generation and Applications, Cape Cod, Massachusetts September 26-29, 1988.	1988
B2010-0025/040	11th International Conference on Atomic Physics, Paris, France July 4-8, 1988.	1988

Box number	File title	Date range
B2010-0025/040	Science Council of Canada workshop. Bridging the Gap: Financing Scientific and Technological Innovation in Industry, Toronto, Ontario November 24-25, 1988	1988
B2010-0025/040	9th International Conference on Laser Spectroscopy, Bretton Woods, New Hampshire June 18-23, 1989 – contains paper.	1988-1989
B2010-0025/041	Conference on Lasers and Electro-optics/Quantum Electronics and Laser Science (CLEO/QELS), Baltimore, Maryland April 24-28, 1989 – contains paper.	1989
B2010-0025/041	Presidential Colloquium on Research, University of Toronto September 20, 1989.	1989
B2010-0025/041	Second Canadian Workshop on X-Ray Lasers, Ottawa, Ontario October 12-13, 1989.	1989
B2010-0025/041	The U.K.-Canada Rutherford Lecture. "Turntable Laser-Driven Sources for Extreme Ultra Violet Spectroscopy", Oxford, U.K. October 25-31, 1989 – contains abstract.	1989
B2010-0025/041	Election to the American Academy of Arts and Sciences, Cambridge, Massachusetts May 10, 1989.	1989-1992
B2010-0025/041	Engineering Foundations Conference: Future Prospects and Applications for UV and VUV Lasers, Santa Barbara, California February 25 – March 2, 1990.	1989-1990
B2010-0025/041	George Eastman Lecture. "The Science of Light in Art", Palo Alto, California March 29, 1990 – contains abstract.	1990
B2010-0025/041	Conference on Lasers and Electro-optics/International Quantum Electronics (CLEO/QEC), Anaheim, California May 21-25.	1989-1990
B2010-0025/041	NATO Advanced research Workshop: Coherence Phenomena in Atoms and Molecules in Laser Fields, McMaster University, Hamilton Ontario May 5-10, 1991.	1991

Box number	File title	Date range
B2010-0025/041	Optical Society of America Leadership Conference, Santa Fe, New Mexico January 31 – February 4, 1991.	1990-1991
B2010-0025/041	Symposium on High Resolution Electronic Spectroscopy in Honour of Professor Gerald King at the Canadian Chemical Conference, McMaster University, Hamilton Ontario June 2-6, 1991.	1990-1991
B2010-0025/041	10th International Conference on Laser Spectroscopy, Fort Romeu, France June 17-21, 1991.	1991
B2010-0025/041	14th International Conference on Coherent and Nonlinear Optics 1991, Leningrad, USSR September 24-27, 1991	1990-1991
B2010-0025/041	Arthur Schawlow Symposium, Stanford University, California November 2, 1991 – contains papers and materials related to Art Schawlow's Memorial Symposium	1991-2000
B2010-0025/041	Richard G. Brewer Symposium, Stanford University, Palo Alto California May 16, 1992.	1992
B2010-0025/041	Frontiers in Laser Spectroscopy, Varenna, Italy June 23 – July 3 1992.	1991-1992
B2010-0025/041	13th Annual Conference on Raman Spectroscopy, Würzburg, Germany August 31 – September 4, 1992 – contains paper.	1992
B2010-0025/042	Crested Butte workshop on Atomic coherence and Interference in Quantum Optics, Mt. Crested Butte, Colorado September 14-17, 1992 -	1992
B2010-0025/042	18th International Quantum Electronics Conference (IQEC '92), Vienna, Austria June 14-19, 1992 – contains paper.	1992
B2010-0025/042	Institute for Laser Science: Seminar on Laser Spectroscopy, Chofu, Japan February 1993 – contains correspondence between Dr. Stoicheff, Rob (?), and Kohzo Hakuta re: an experiment.	1992-1993

Box number	File title	Date range
B2010-0025/042	Optical Society of America Annual Meeting, Toronto, Ontario October 3-8, 1993 – contains abstract.	1993
B2010-0025/042	VI International Conference on Multiphoton Processes (ICOMP VI), Quebec City, Quebec June 25-30, 1993.	1991-1993
B2010-0025/042	Crested Butte workshop on Atomic Coherence and Interference, Crested Butte, Colorado July 26-28, 1993.	1993-1994
B2010-0025/042	Eleventh International Conference on Laser Spectroscopy, Hot Springs Virginia June 13-18, 1993 – contains abstract.	1993
B2010-0025/042	Symposium on Lasers and Electro-Optics in Medicine, Ottawa, Ontario May 12, 1993 – contains paper.	1993
B2010-0025/042	Crested Butte 94 Conference on Quantum Coherence and Interference in Fundamental and Applied Physics, Crested Butte, Colorado August 8-11, 1994.	1994-1995
B2010-0025/042	International Symposium on Molecular Spectroscopy, Ohio State University, Columbus, Ohio June 13-17, 1994 – contains paper.	1993-1994
B2010-0025/042	International Conference on Applications of Photonic Technology: Sensing, Signal Processing and Communications, Toronto, Ontario June 21-23, 1994 – contains paper.	1994
B2010-0025/042	Conference on Lasers and Electro-Optics/International Quantum Electronics Conference, Washington, D.C, 1994	1994
B2010-0025/042	Twelfth International Conference on Laser Spectroscopy, Island of Capri, Italy June 11-16, 1995 – contains speech (Italian).	1995
B2010-0025/042	Canadian Association of Physicists Annual Meeting and 50th Anniversary, Laval University, Laval, Quebec Jun 11-16, 1995. Contains papers.	1994-1995

Box number	File title	Date range
B2010-0025/042	Conference on Lasers and Electro-Optics/Quantum Electronic and Laser Science Conference (CLEO/QELS): Special Birthday Symposium in Honor of Charles H. Townes, Baltimore, Maryland May 22, 1995.	1995
B2010-0025/042	Festkolloquium on the Occasion of the 60th Birthday of Dr. Herbert Walther, Munich, Germany January 20, 1995.	1994-1995
B2010-0025/042	Canadian Association of Physicists Annual Congress, Ottawa, Ontario June 16-19, 1996 – contains seminar syllabus for “The Riddle of Light”.	1995-1996
B2010-0025/043	17th Congress of the International Commission for Optics, Taejon, Korea August 18-23, 1996.	1995-1996
B2010-0025/043	15th International conference on Atomic Physics: Zeeman-effect Centenary (ZICAP), University of Amsterdam, Amsterdam, Netherlands August 5-9, 1996.	1996-1997
B2010-0025/043	Canada-U.S. Workshop on Frontiers of Quantum Electronics, University of Toronto, Toronto, Ontario February 29 – March 1, 1996.	1996
B2010-0025/043	International Conference on Quantum Optics and Laser Physics, Hong Kong Baptist University, Hong Kong January 3-6, 1997.	1996-1997
B2010-0025/043	Division of Atomic and Molecular Physics and the Division of Optics and Photonics Joint Meeting, Ottawa, Ontario October 30 – November 1, 1997 – contains talk.	1997
B2010-0025/043	Royal Society Discussion Meetings on: Highlights in Quantum Optics, London, England January 29-30, 1997.	1995-1997
B2010-0025/043	Ciba Foundation/Royal Society Discussion Meeting: Quantum Optics in Biology and Medicine, London, England January 31, 1997.	1995-1997

Box number	File title	Date range
B2010-0025/043	NATO Advanced Research Workshop: Science Evaluation and its Management, Prague, Czech Republic November 25-28, 1997 – contains abstract and paper.	1997-1999
B2010-0025/043	Taos Conference, Taos, New Mexico August 15-17, 1997 – contains paper.	1997-1998
B2010-0025/043	Texas A and M University/ONR Summer Workshop on Quantum Optics, Jackson Hole, Wyoming August 3-5, 1998.	1998
B2010-0025/043	Sixth International Topical Meeting on Education and Training in Optics and Photonics, Cancun, Mexico July 27-30, 1999 – contains abstract and talk.	1999-2000
B2010-0025/043	14th International Conference on Laser Spectroscopy, Innsbruck, Austria June 7-11, 1999 – contains abstract.	1999
B2010-0025/043	School of Optics Inaugural Conference, University of Central Florida January 11-12, 1999.	1999-2000
B2010-0025/043	Inspired by Herzberg: Spectroscopy for the Year 2000, Cornwall, Ontario October 30 – November 3, 1999	1999
B2010-0025/044	Art Schawlow Memorial Symposium at the Conference on Lasers and Electro-optics/Quantum Electronics and Laser Science Conference (CLEO/QELS), San Francisco, California May 7-12, 2000 – contains talk.	2000
B2010-0025/044	Gordon research Conference: Molecular Electronic Spectroscopy and Dynamics, New London, New Hampshire July 30 – August 4, 2000.	2000
B2010-0025/044	Ultrafast Optics 2001, Montebello, Quebec July 22 – July 26, 2001 – contains talk.	2001
B2010-0025/044	Nonlinear Optics: Materials, Fundamentals and Applications, Waikoloa, Hawaii August 2-6, 2004	2004

Box number	File title	Date range
B2010-0025/044	87th Canadian Chemistry Conference: Herzberg Symposium, London, Ontario May 29 – June 1, 2004 – contains talk.	2004
B2010-0025/044	American Physical Society Annual Meeting, Montreal, Quebec March 22-26, 2004 – contains paper.	2003-2004
B2010-0025/044	Amazing Light: Visions for Discovery – An International Symposium in Honor of the 90th Birth Year of Charles H. Townes, University of California, Berkely, California October 6-8, 2005	2005
B2010-0025/044	Materials for the Charles H. Townes Symposium – contains talk, and correspondence re: the organization of the symposium.	2005
B2010-0025/044	Miscellaneous materials related to various conferences 1987-2003 – contains papers, abstracts, correspondence and brochures.	1987-2003
B2010-0025/044	Miscellaneous materials related to meetings and conferences, 1968-1980 – contains notes from various conferences and meetings, and brochures.	1968-1980



**Appendix 3 - File Listing - Series 8: Professional Associations and Activities**

<b>Box number</b>	<b>Description</b>	<b>Date range</b>
B2010-0025/063	Association of Professional Engineers of Ontario. External Communications Committee	1989-1990
B2010-0025/063	Association of Professional Engineers of Ontario. Taskforce on Discipline and Enforcement	1990
B2010-0025/063	Canadian Association of Physicists. Physics and Society	1981-1982
B2010-0025/063	Canadian Association of Physicists. Natural Sciences and Engineering Research Council study meeting	1982-1983
B2010-0025/063	Canadian Association of Physicists. High Tech Course	1983-1984
B2010-0025/063	Canadian Association of Physicists. Careers in Physics	1983
B2010-0025/063	Canadian Association of Physicists. Correspondence	1983-1984
B2010-0025/063	Canadian Association of Physicists. Professional Engineers Act	1983-1984
B2010-0025/063	Canadian Association of Physicists. Awards Committee	1986
B2010-0025/063	Canadian Association of Physicists. Kaon Factory	1986
B2010-0025/063	Canadian Association of Physicists. Fifty Year Membership	2006
B2010-0025/064	The Canadian Institute for Advanced Research. Review Committee	1988, 1998
B2010-0025/064	The Canadian Institute for Advanced Research. Research council meetings	1989-1999
B2010-0025/064	The Canadian Institute for Advanced Research. Cosmology Program, Hawaii and CFH Telescope	1995
B2010-0025/064	The Canadian Institute for Advanced Research. Cosmology Program	1990-2000
B2010-0025/064	The Canadian Institute for Advanced Research. Correspondence	1992-2000

Box number	Description	Date range
B2010-0025/064	The Canadian Institute for Advanced Research. Quantum Information Proposal	2002
B2010-0025/065	National Research Council of Canada. High Energy Physics	1972-1973
B2010-0025/065	National Research Council of Canada. Joint A.E.C.B./N.R.C. Advisory Committee – Nuclear Physics Priorities Committee	1975-1976
B2010-0025/065	National Research Council of Canada. Ad Hoc Review Committee on the Division of Chemistry's Sussex Drive Laboratories	1979-1980
B2010-0025/065	National Research Council of Canada. Grants and scholarships	1978
B2010-0025/065	National Research Council of Canada. Council Executive	1980-1982
B2010-0025/065	National Research Council of Canada. Council	1980-1983
B2010-0025/065	National Research Council of Canada. Review Committee on Low Temperature Laboratory	1983
B2010-0025/065	National Research Council of Canada. Low Temperature Thermal Dynamics Review	1983-1994
B2010-0025/065	National Research Council of Canada. Stearie Prize	1983-1984
B2010-0025/065	National Research Council of Canada. National Research Council	1989-1990
B2010-0025/065	National Research Council of Canada. Review of International Affiliations	1990
B2010-0025/065	National Research Council of Canada. Stearie Institute for Molecular Science	1991-1992
B2010-0025/065	National Research Council of Canada. Reference for David Lockwood	2001
B2010-0025/065	National Research Council of Canada. Canadian Journal of Physics	1976-1980
B2010-0025/065	National Research Council of Canada. Canadian Journal of Physics – editorial Advisory Board	1992-1994
B2010-0025/001M	National Research Council of Canada. Outstanding Achievement Award in Public Awareness – Video Tape with Stoicheff's Testimonial.	2002

<b>Box number</b>	<b>Description</b>	<b>Date range</b>
B2010-0025/066	Royal Society of Canada. Nominations Committee	1967-1978
B2010-0025/066	Royal Society of Canada. Appointment	1972
B2010-0025/066	Royal Society of Canada. Appointment as Fellow	1975
B2010-0025/066	Royal Society of Canada. Annual Meeting – Victoria B.C.	1990
B2010-0025/066	Royal Society of Canada. University Research	1990
B2010-0025/066	Royal Society of Canada. Nominations, Awards and Medals	1992
B2010-0025/066	Royal Society of Canada. Co Foreign Secretary	1994-1996
B2010-0025/066	Royal Society of Canada. Foreign Secretary	1994-1996
B2010-0025/066	Royal Society of Canada. Luncheon Meeting – Academy III	1996, 1994
B2010-0025/066	Royal Society of Canada. Dinner	1996
B2010-0025/066	Royal Society of Canada. International Academy Panel – Foreign Secretary	1996
B2010-0025/066	Royal Society of Canada. Co Foreign Secretary – NATO workshop, Athens	1996

**Appendix 4 - File Listing - Series 10: Ontario Laser and Lightwave Research Centre**

<b>File numbers</b>	<b>File title</b>	<b>Date range</b>
B2010-0025/077(01)-(02)	Early records re: founding: Centres of Excellence	1986-1987
B2010-0025/077(03)	Early records re: founding: Original proposal	1987
B2010-0025/077(04)	Early records re: founding: Lecture - introduction of the centre	1988?
B2010-0025/077(05)	Early records re: founding: Opening event	1988-1989
B2010-0025/077(06)	Early records re: founding: budget	1988-1989
B2010-0025/077(07)	Early records re: founding: by-laws	1988?
B2010-0025/077(08)	Early records re: founding: first annual report	1989
B2010-0025/078(01)-(03)	Provincial funding: Premier's Council	1988-1991
B2010-0025/078(04)	Provincial funding: Premier's Council Technology fund	1988-1990
B2010-0025/078(05)-(06)	Provincial funding: Strategic Grant Program	1990-1994
B2010-0025/078(07)	Facility Review Committee	1989
B2010-0025/078(08)	Facility marketing	1989
B2010-0025/078(09)-(10)	Facility - general	1989-1990
B2010-0025/078(11)	Facility - Manny Hubert	1990-1991
B2010-0025/079(01)	Planning records: five year business plan	1988-1992
B2010-0025/079(02)-(03)	Planning records: Annual Operating Plan	1989-1991
B2010-0025/079(04)-(08)	Planning records: Planning	1991-1995
B2010-0025/079(09)	Planning records: Evaluations of Centres	1989-1990
B2010-0025/079(10)	Planning records: Report of Evaluation Panel	1990
B2010-0025/079(11)	Planning records: Responses to evaluation Report	1990-1991
B2010-0025/080(01)	Meeting of the Principle Investigators	1988-1990
B2010-0025/080(02)	Principal Investigators and Associates - Dec 11 1989	1989
B2010-0025/080(03)	Principal Investigators and Associates - Sept 22, 1989	1989
B2010-0025/080(04)	Principal Investigators and Associates ; Board of Directors Meetings	1990-1991
B2010-0025/080(05)	Board Committees	1988
B2010-0025/080(06)	Board Meeting - June 1988	1988
B2010-0025/080(07)	Board Meeting - Nov 1988	1988
B2010-0025/081(01)	Board Meeting - June 1989	1989

File numbers	File title	Date range
B2010-0025/081(02)	Board Meeting - Dec 1989	1989
B2010-0025/081(03)	Board Meeting - June 1990	1990
B2010-0025/081(04)	Board Meeting - general business	1990-1991
B2010-0025/081(05)	Board Meeting - March 1991	1991
B2010-0025/081(06)	Board Meeting - June 1991	1991
B2010-0025/081(07)-(08)	Management Meetings 1989-1991	1989-1991
B2010-0025/081(09)	Topical meeting	1989
B2010-0025/081(10)	Meeting of the Scientific and Industrial Advisory Committee	1989-1990
B2010-0025/081(11)	Meetings - various committees	1990-1991
B2010-0025/082(01)	Correspondence: general	1989-1991
B2010-0025/082(02)	Correspondence: Re: staff	1988-1990
B2010-0025/082(03)	Correspondence: Margaret Grisdale	1988-1989
B2010-0025/082(04)	Correspondence: Dave May	1988-1991
B2010-0025/082(05)	Correspondence: Isabel McKone	1990
B2010-0025/082(06)	Correspondence: Val Rustic	1988-1991
B2010-0025/082(07)	Correspondence: John Sajeev	1988-1989
B2010-0025/082(08)	Correspondence: Henry Van Driel	1988-1990
B2010-0025/082(09)	Correspondence: Mike Walker	1988-1990
B2010-0025/083(01)-(04)	Research Review Committee	1988-1993
B2010-0025/083(05)-(13)	Research Reports - various quarterly	1988-1993
B2010-0025/083(14)	Abstracts of Research	n.d.
B2010-0025/084(01)	Communications, media and workshops: communications activities	1988-1989
B2010-0025/084(02)	Communications, media and workshops: brochures	1990-1991
B2010-0025/084(03)	Communications, media and workshops: French translations for brochures	1990?
B2010-0025/084(04)	Communications, media and workshops: newsletter "from the Executive Director's Desk"	1989-1990
B2010-0025/084(05)	Communications, media and workshops: media articles	1988-1990
B2010-0025/084(06)	Communications, media and workshops: Scandinavian tour	1990
B2010-0025/084(07)	Communications, media and workshops: workshop	1988
B2010-0025/084(08)	Communications, media and workshops: summer workshop for high school teachers	1989

<b>File numbers</b>	<b>File title</b>	<b>Date range</b>
B2010-0025/084(09)	Communications, media and workshops: summer school III	1991
B2010-0025/084(10)	Communications, media and workshops: special visits	1989
B2010-0025/084(11)	Communications, media and workshops: general administrative records	1993-1994