Michael K. Craddock fonds

Compiled by Syr Reifsteck (2017)



University of British Columbia Archives





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Fonds Description

Michael K Craddock fonds. - 1958-2015.

42.15 m of textual records.

Biographical Sketch

Michael Craddock (1936-2015) was born in the United Kingdom. He received his bachelor's, master's and PHD from Oxford in the respective fields of mathematics, physics, and nuclear physics. Before coming to UBC's Physics department, he was also a scientific officer at Rutherford-Appleton Laboratory.

Once at UBC, Craddock was pivotal in the department's work to build a new accelerator at the UBC Campus – exploring many options, recommending designs, and managing the specifications. This work lead to the 1968 federal approval of the TRIUMF proposal.

TRIUMF is a consortium, now featuring 20 member universities, originally started by Simon Fraser University, the University of British Columbia, and University of Victoria. Its original aim was to conduct research not possible by a single university in the area of nuclear physics. TRIUMF is located at the south campus of UBC in Vancouver.

For the first 10 years Craddock was TRIUMF's beam-dynamics group leader. He was at TRIUMF for 50 years, and spent 33 years as TRIUMF's head accelerator physicist, with various titles, before retiring in 2001. During that time, he was chief architect for TRIUMF's attempt to build the Kaon Factory project through acquiring federal funding for a suite of synchrotron-type proton accelerators. After failing to receive funding, Craddock worked projects related to the Large Hadron Collider accelerator injector chain at CERN. Throughout his career he supervised many graduate students, taught undergraduate and graduate courses, and was TRIUMF's Correspondent for the CERN *Courier*.

After retirement, he joined the Accelerator Development group at TRIUMF and worked on fixed-field alternating gradient accelerators (FFAGS) from 2004-2012, remaining a constant presence at the lab, organizing conferences, presenting introductory accelerator physics lectures, workshops and acting as TRIUMF's historian. At the end of his life he also made a financial gift to TRIUMF, establishing the Michael Craddock Fund for Accelerator students.

Scope and Content

The fonds consists of Craddock's professional papers in the form of textual records (including correspondence, reports, minutes, course materials, interviews), published

materials, technical research notes, presentation slides and reference materials. The records primarily chronicle Craddock's work and role at TRIUMF, particularly TRIUMF's attempt to build a Kaon Factory particle accelerator. Many other aspects of TRUMF are documented in these papers including- administration, various committees, workshops, published reports and research, various particle physics projects, physics reference files, and collaborations with other organizations. Craddock's work on recording TRIUMF's origins and history is also represented.

Outside of Craddock's involvement with TRIUMF, other professional papers reflect his teaching career, talks, presentations, and correspondence with colleagues graduate students, and the public.

Notes

Donated to the University Archives by Craddock's family in 2017 after being stored in Craddock's offices at TRIUMF.

File list available.

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Series Descriptions

Kaon Factory series. - 1971-2003.

2.67 m of textual records.

This series consists of records documenting TRIUMF's attempt to design, build, and fund the development of a Kaon Factory particle accelerator in Vancouver at the TRIUMF facility. Materials include meeting minutes, research, outside evaluations, fundraising campaigns, news clippings, physics research, finances, contracts, and notes.

Campaign and Promotions sub-series. – 1980-2003. 1.43 m of textual records.

This sub-series consists of letters and correspondence with various governments and organizations in pursuit of funding and support for the Kaon Factory. It also contains correspondence in favor of the accelerator, pamphlets and community outreach records, news-clippings and other materials produced in the course of trying to promote, fund, and actualize the accelerator.

Boxes 1-8

Logistics and Proposals sub-series. - 1971-2003.

1.24 m of textual records.

This sub-series consists of meeting minutes, design proposals, outside reports, consultations with other labs, financial considerations, budgets, and other research records related to the material design, financing and creation of the Kaon Factory.

Boxes 8-12

School, Coursework and Students series. - 1966-2015.

86.5 cm of textual records.

This series contains records related to Craddock's role at the University of British Columbia and as a teacher of various institutes and outside seminars. It includes course syllabi, slides and presentation materials, registration forms, and administration records related to graduate students.

Boxes 12-16

TRIUMF Steering, Review and Planning Committees series. - 1971-2003.

63 cm of textual records.

This series consists of the meeting notes, minutes, agendas and shared materials of various TRIUMF committees including the long range planning committee, the accelerator review committee, the steering committee and the computing committee.

Boxes 16-18

Conferences and Workshops series. - 1965-2013.

1.66 cm of textual records.

This series consists of records related to attending, planning, hosting and managing various conferences including various particle accelerators Conferences, Cyclotrons conference, SNOWMASS and others. It also includes records related to TRIUMF workshops for the public as well as those offered at scientific conferences.

Boxes 18-27

Talks and Related Materials series. - 1979-2014.

30 cm of textual records.

This series includes notes, slides, and presentation materials for talks Craddock gave at various conferences, workshops, and symposiums on various particle physics topics.

Boxes 27-28

Publications, Papers and Reports series. - 1958-2015.

1.02m of textual records.

This series consists of various publications, papers and reports either which Craddock contributed to or has contributions from other researchers associated with TRIUMF.

Boxes 29-31

TRIUMF Administration and Finances series. - 1968-2015.

1.34 cm of textual records.

This series includes records produced in the course of TRIUMF administration, particularly quarterly reports, cost analysis, budgets and financial records.

Boxes 31-36, 52

TRIUMF Outreach, Promotions and Media series. - 1965-2015.

23.5 cm of textual records.

This series consists of TRIUMF outreach and promotion records including brochures, annual reports, interviews, and related correspondence.

Boxes 37

CERN series. - 1985-2008.

26 cm of textual records.

This series consists of records related to Craddock and TRIUMF's partnerships, correspondence, funding from, research published with and consultation with CERN, the European Organization for Nuclear Research.

Boxes 37-38

Collaboration series. - 1984-2013.

34 cm of textual records.

This Series consists of records related Craddock and TRIUMF's visits to and from as well as consultation with other physics facilities and accelerator programs. Records include programs, queries, research notes, and correspondence.

Boxes 38

Career series. - 1964-2003.

10 cm of textual records.

This series contains records of Craddock's career including CVs, resumes, and webpage print outs.

Boxes 39

TRIUMF History, Origin and Texts series. - 1975-2015.

42 cm of textual records.

This series contains records related to TRIUMF documenting its history – including Craddock's interviews with various key figures, drafts of and correspondence related to TRIUMF book, obituaries, and records of the TRIUMF Retiree's Association.

Boxes 39-41

TRIUMF Projects, Notes and Research series. - 1961-2013.

1.78 m of textual records.

This series consists of TRIUMF project documentation and planning other than the Kaon Factory accelerator. It includes handwritten research notes, research on planned projects, numbers generated by projects, and related records. Projects include FFAG, Courier, ISAC facilities for rare isotope beams (particularly EMMA), and other cyclotron related experiments.

Boxes 41-47

Correspondence series. - 1966-2014.

88 cm of textual records.

This series consists of Craddock's correspondence with other physicists, students, friends and organizations.

Boxes 47-51

File List

KAON FACTORY SERIES

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39-37	[TRIUMF 40th Anniversary materials 2009]
39-38	TRIUMF History 2009
39-39	The TRIUMF Project: A Report Prepared by the TRIUMF Study Group 1966
39-40	TRIUMF Timelines, Promotion Materials, Ephemera,
39-41	TRIUMF Proposals
39-42	Early TRIUMF Correspondence e.g Direction selection, 1874-1975
39-43	[TRIUMF Book Correspondence] 2001
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40-1	Bromley Book Contributions 2001
40-2	[Bromley Feedback on Draft 2001]
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40-4	Bromley 1993 [2 folders]
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41-3	Lorna 2015
41-4	Karl Erdman 2015
41-5	UBC Science History 2015
41-6	TRIUMF History – Webpages 2015 [emails about]
41-7	(Still River) Mevion 2013
41-8	Vogt 2015 [interviews]
41-9	Vogt Tributes
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41-10	Beam Transfer 1993
41-11	A Injection Insertion 1990
41-12	45 Gev [a piece of notebook paper with equations]
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42-8	Courier LHC Quads 02004
42-9	Courier – Gcampbell 2003
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42-12	Courier TRIUMF REVIEW 2003
42-13	Courier / Thin Quad 2002
42-14	Courier-Gillies Visit 2001
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43-6	Emittance Determination 1981
43-7	Superconducting Magnet Technology 1972
43-8	Beam Line Optics 1961-1970
43-9	Beam Lines Techie 1968-1970
43-10	BL1 1980-1989 Beamline 1a
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43-13	Peanuts. Line 81-87
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43-16	Low Energy Extraction 1987
43-17	BL4A
43-18	Long Pol ^N 4R Longitudinally Polarized Proton Beams 1988
43-19	BL 4P 1980
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43-22	M8 Upgrade Magnet Upgrades 1983
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43-34	Lobb Channel 1980
43-35	Los Alamos Notes
43-36	HRS 1980-1982 High Resolution Studies

43-37	Spectrometers1971-1976
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43-42	EQPT + Instrument 1972-1977
43-43	Targets 1984
43-44	Polarized Targets 1982
43-45	Exptl evaluation 1976-1979
43-46	a bibliography and summary of data for P, pi reaction: $p + a \rightarrow pi + (A+1)$
43-47	proton-proton bremsstrahlung at 200 MeV 1980
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44-6	EMMA 18/310 (correspondence, meeting materials)
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44-12	Eng Physics Project Lab 2014
44-14	Magnet Opera Poisson 2012
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44-17	NSFFAG Theory
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44-19	CYCLOPS Radial Sectors Sep 07
44-20	Radial Sectors Matrix
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44-22	Formula for finding energy level of upsilon particles
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45-22	Accelerator 1963
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45-24	Los Almnos notes 1981
45-25	Calorimeter
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45-28	Solienoid & Search Coil [60s all handwritten notes]
45-29	[T(He ³ ,d He ⁴ Reactions]
45-30	Polarized Ion Sources Reviews 1965
45-31	Rutherford Production of Polarized Ions 1961
45-32	Metastables 1965-2005
45-33	Low energy Pol ⁿ Analysis
45-34	Bean Design Notes and Time Allocation 1978
45-35	LAMPF 2 Proposal
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51-2	JRR Letters 1991 [Dr J Reginald Richardson, for nomination]
51-3	JRR – Honorary Doctor of Science 1979
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51-6	Sy Lee 2012 [citation corrections]
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52-6	Campus ABO Computing 1987
52-7	Supercomputer 1986-1988
52-8	Coaxial Quotes 1982-1983
52-9	Terminal 2 1979-1982
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