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NATIONAL RESEARCH COUNCIL ARCHIVES

NELSON DURIE

Medical Engineering Section
Radio And Electrical Engineering Division

Finding Aid

Prepared by Lynn Delgaty

NRC Archives

February, 1993

Title: N. D. Durie Collection

Dates: 1954-1987.

Extent: 27 cm of textual records, 15 cm of technical drawings.

Biographical Sketch: Nelson D. Durie graduated from the University of Toronto in 1950 with a B.A.Sc. in Chemical Engineering and embarked on a career which was to become a life-long commitment to scientific research. In 1950 he accepted a position with Roxalin of Canada; in 1952, he moved to Ferranti Electric; and then in 1953, he moved to Ontario Hydro. In 1964, he left the work force to pursue post graduate studies at the University of Western Ontario. When he graduated in 1966 with a M.E.Sc. in Biomedical Engineering, he accepted a position as Senior Research Officer with the Medical Electronics Group at NRC. Nelson Durie's early research at NRC focused on acute health care problems, surgery aids, infant incubators, etc. From 1974 on, he played a key role in the development of systems and devices for persons with disabilities. His contributions significantly enhanced communication, therapy, mobility, and most importantly, the quality of life for those who suffered from permanent disabilities. In addition to his work at NRC, Nelson Durie served as Secretary for the NRC Associate Committee for Research and Development for Rehabilitation of Disabled Persons from 1982 to 1990. He also served as Secretary to the Interim Board, Canadian Rehabilitation Science Institute from 1988 to 1992 and as Executive Secretary for the Canadian Medical and Biological Engineering Society from 1979 to 1990. He was a member of the Mechanical Technology Advisory Committee of Algonquin College, the Canadian Standards Association Committee on Technology for the Handicapped, and the Board of the McLure Habilitation Centre. N. D. Durie left the NRC in 1992.

Custodial History: This collection was transferred to NRC Archives by Nelson Durie at retirement. It was arranged and described in February of 1993.

Scope and Content: Fonds consists of programmes, pamphlets, manuals, correspondence, reports, articles, reviews, notes, drawings, grant and patent applications, research data and historical clippings. The material pertains to the projects of the Medical Engineering Section of REED, the history of the NRC and Durie's work.

Access

Files 1.26, 1.36, 1.46 contain confidential material

01	01	National Research Council: Open House. Programme. May 26 to 28, 1954	1954-1954
01	02	Medical Electronics Pamphlet. n.d.	
01	03	International Anaesthetics Congress. Correspondence, Exhibitors Information Manual. May to Sept. 1960	1960-1960
01	04	Medical Electronics Pamphlet, Oct. 1964	1964-1964
01	05	Fiftieth Anniversary Celebrations. Correspondence.	1966-1966
01	06	Fifth International Congress of Physical Medicine. Correspondence.	1967-1968
01	07	Biomedical Engineering report. Activities of the Electronics Group.	1970-1970
01	08	The Role of NRC in Biomedical Engineering/J.A. Hopps.	1971-1971
01	09	A program of Orientation for NRC.	1971-1971
01	10	Biomedical Engineering report on activities.	1955-1972
01	11	J.A. Hopps. Correspondence.	1972-1976
01	12	Report on the activities of the Electronics Group. March 1972.	1972-1972
01	13	Report on the activities of the Electronics Group. December 1972.	1972-1972
01	14	Project reports/J.A. Hopps.	1972-1973
01	15	Report of an invention under the Public Servants Act. A.C. Hudson. May 1974	1974-1974
01	16	Report from 1968 to 1975 for the Senate Questionnaire. Nov. 25, 1975.	1975-1975
01	17	Medical Engineering Section. Review of Activities. July 1975.	1975-1975
01	18	Ad Hoc Committee on Biomedical Engineering. Sept. 1976.	1976-1976
01	19	Update on Current Activities, Medical Engineering Section. Sept. 1976.	1976-1976
01	20	Ad Hoc Review Committee on Biomedical Engineering. Report, March, 1977.	1977-1977
01	21	An Evaluation of Bio Engineering in REED.	1977-1977
01	22	Aids for the Handicapped. Biomedical Engineering Research Program.	n.d.

01	23	Medical Engineering Section: Commitment to the Handicapped.	n.d.
01	24	Miscellaneous project descriptions.	n.d.
01	25	Moulded wheelchair inserts for handicapped children. Correspondence, research notes, drawings, publication and related material.	1974-1975
01	26	Project Implant 050: Artificial Hand Development Project. Correspondence, grant applications, final report. Confidential.	1974-1976
01	27	Project Implant 050: Artificial Hand Development Project. Correspondence, minutes of meetings, research notes, drawings and other related materials.	1974-1976
01	28	Dice Thrower Project. Drawings.	1975-1975
01	29	Mechanical Card Playing Holder Project. Project notes and drawings.	1975-1975
01	30	Goniometer Project. Drawings.	1975-1975
01	31	Knee Switch Project. Project notes and drawings.	1975-1975
01	32	Grasp Aid for the Handicapped. Drawings.	1975-1975
01	33	Special Bicycle for the Handicapped. Project drawings.	n.d.
01	34	Limb Load Monitor Project. Correspondence, patent application, project notes and related materials.	1976-1981
01	35	A Single Switch Control for Wheelchairs and other Equipment. Correspondence, publication and drawings.	1976-1981
01	36	Pait Project: Development of Upper-Extremity Protheses. Correspondence and grant applications. Confidential.	1977-1977
01	37	Nurse call bells for quadriplegics. Correspondence and project notes.	1978-1978
01	38	Walkway for measurement of step length. Project description and drawings.	1978-1978
01	39	Headlight device. Project description, correspondence and drawing.	1978-1978
01	40	Electric knife for the handicapped. Project description, correspondence and project evaluation.	1979-1979
01	41	Head position control and aid for sitting straight. Project description and correspondence.	1979-1979
01	42	Armcart. Project drawings.	1980-1980

01	43	A Study of Damping to Improve Manual Dexterity of the Handicapped. Publication, conference paper, correspondence and project notes.	1980-1980
01	44	A Low-Cost Touch Switch Especially Suitable for the Handicapped. Manuscript and correspondence.	1979-1982
01	45	Hand-eye Coordination. Research proposal, data, report, correspondence, contracts. Confidential	1979-1982
01	46	A Touch Sensitive Keyboard for the Handicapped. Correspondence and evaluation.	1979-1982
02	01	Brain metabolism. Lab notes.	1966-1966
02	02	Experimental surgery at Ottawa University low temperature laboratory. Lab notes and research data.	1966-1968
02	03	Experiences With Cord Temperature Maintenance During the Course of Regional Profound Brain Hypothermia. Manuscript, correspondence and research data.	1966-1970
02	04	Small Organ Hypothermia. Manuscript, drawings, lab notes and research data.	1967-1968
02	05	A Simplified System for Passive Telemetry. Manuscript, correspondence, drawings, lab notes and research data.	1967-1968
02	06	Intracranial Pressure Monitor I. Manuscript, drawings, lab notes and research data.	1968-1970
02	07	Hydrocephalus Valve. Correspondence, drawings, lab notes and research data.	1967-1969
02	08	A Unified Method for Regional Anti-coagulation of Blood. Manuscript, correspondence, lab notes and research data.	1968-1970
02	09	Artificial Blood. Correspondence, lab notes and research data.	1969-1971
02	10	Organ Preservation. Lab notes, correspondence, drawings and research data.	1968-1975
02	11	A Readily Constructed Facility for Ex-vivo Organ Maintenance. Manuscript, lab notes, correspondence, drawings and research data.	1969-1969
02	12	A Portable Self Powered System for Organ Preservation. Manuscript, lab notes, correspondence, drawings and research data.	1970-1975
02	13	Experimental Surgery. Low Temperature Laboratory. April 1970 to March 1972.	1970-1972

02	14	Experimental Surgery. Low Temperature Laboratory. March 1972 to April 1975.	1972-1975
02	15	Electroencephalograph. Correspondence.	1974-1974
02	16	Heart Valve. Correspondence, drawings and lab notes	1974-1974
02	17	Electrical pain relief. Several papers, correspondence and related materials.	1977-1981
02	18	Thermography. Research data, Notre Dame Hospital. Jan. 3rd and 12th.	1979-1979
02	19	Suppression of pathological tremor by mechanical loading, a U.S.A. National Science Foundation research proposal sent to Nelson Durie for review.	1981-1981
02	20	Bladder Sensor. Correspondence.	1986-1987
02	21	Cerebellar stimulation. Correspondence, minutes of CIA-CP team meetings.	1977-1978
02	22	Blood Viscosity. Research notes and data.	1977-1977
02	23	Urine Glucose Measurement for Blind Diabetics. Correspondence, drawings and conference paper.	1978-1978
02	24	Ultrasound. Digiecho Service Manual.	n.d.
02	25	The National Research Council of Canada. Operating theatre monitor.	n.d.
02	26	Miscellaneous drawings.	n.d.