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MELBOURNE

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NAME OF COLLECTION	John Neill Greenwood
ACCESSION NO	1985.0137
CATEGORY ACTIVITY	University, individuals Academics - Metallurgy
DATE RANGE	1924-1981
SIZE OF COLLECTION	12 cm. (1 archives box) Photograph
HISTORICAL NOTE	Born in 1894 in St. Helens, Lancs, Greenwood was appointed to the new Chair of Metallurgy at the University of Melbourne in 1924, which he held until 1945. In 1946 he was appointed Research Professor of Metallurgy and from 1957-1959 was Dean of Applied Science. In 1960 he was appointed to a Personal Chair, retiring in 1964. In 1962 Greenwood participated in the Royal Commission to enquire into the failure of King's Bridge, Melbourne. He died in 1981.
DATE OF TRANSFER	13 March 1985
ACCESS CONDITIONS	Access: Open
DESCRIPTION	Commemoration meeting, 1981; memoirs 1924-1934; newspaper cuttings 1935 and 1968; correspondence 1945-1974; talks and addresses 1934-1979; publications and reports 1940-1963; photographs.
NOTE ON COLLECTIONS	
NOTE ON LISTING	
LISTED BY DATE	Gavin McCarthy

AUSTRALIAN SCIENCE ARCHIVES PROJECT

The Papers of
JOHN NEILL GREENWOOD
(1894 - 1981)

Listed by : Gavan McCarthy

Deposited with the
University of Melbourne Archives
Barry Street, Carlton

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Australian Scientists and scientific institutions.

ISSN No. 0816-3251
1987

AUSTRALIAN SCIENCE ARCHIVES PROJECT

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ACKNOWLEDGEMENTS:

The Australian Science Archives Project wishes to thank the Ian Potter Foundation, CRA Ltd. and the University of Melbourne for the financial assistance that has made the preparation of this listing possible.

INTRODUCTION:

Registration No. : ASAP 5/5/85
Registration Date: 5 April 1985
Collection Size : 12cm (1 Archive box)
Collection Dates : 1924 - 1981.

This collection was assembled from fragments collected from the Department of Metallurgy, University of Melbourne and Mrs. Pat Mather, secretary to Professor Greenwood until the time of his death. This small collection of papers is being added, as a further accession, to the Greenwood papers already held at the University of Melbourne Archives.

'As an educator he [Greenwood] may be said to have launched three generations of Australian graduates who have become the metallurgical mainstay of the Australian extractive industries and of the manufacturing industries derived from them, as well as providing the continuum of education and research in a score of professors and numerous other academic and research staff in Australia and overseas. As a researcher and director of research he made fundamental contributions to the knowledge of creep and related phenomena in metals. As a consultant he directed personally the investigations into major problems in metallurgical equipment and in engineering structures including the famous King's Bridge failure; also he led a team of his graduates and his engineering staff in the development of manufacture of tungsten rod and wire for radio valves during World War II.'

'Teaching in mining and in extractive metallurgy had been introduced at Melbourne University as early as 1874, mining being given as a component in civil engineering and metallurgy as a sub-branch of the Chemistry Department. Sydney and Adelaide Universities also offered courses in mining and extractive metallurgy. Schools of Mines in

several States had provided diploma and certificate courses even earlier. Physical metallurgy was substantially unknown, and a major consideration in the establishment of the first Chair of Metallurgy in 1924 was the introduction of that branch.'

From the Proceedings of the Australasian Institute of Mining and Metallurgy, No. 280, December, 1981., p.4

CAREER SUMMARY: John Neill Greenwood

1894	:	Born 12 December St. Helens, England
-	:	St. Helens Technical School
1913 - 1916	:	Manchester University, Bachelor of Science, 1st. Class Honors in metallurgy
1916 - 1919	:	Sir W. G. Armstrong Whitworth & Co. Openshaw (Chief Research Assistant)
1917	:	Manchester University, Master of Science
1919 - 1924	:	Sam Fox & Co. Ltd. (Chief, Research Department)
1922	:	Manchester University, Doctor of Science
1924 - 1945	:	University of Melbourne (first Professor of Metallurgy)
1925 - 1926	:	Committee on Gas Cylinders (Chairman)
1930	:	Melbourne University Metallurgical Society (Founder - this society was the fore-runner of the Australasian Institute of Metals)
1932	:	University of Melbourne, Master of Metallurgical Engineering
1934	:	married Winifred Borrie
1935	:	Victorian Sub-Committee on Gold Investigations (Chairman)
1936	:	Australasian Institute of Mining and Metallurgy (President)
1940 - 1944	:	War Work, University of Melbourne seconded to the Ministry of Munitions (manufacture of tungston rod and wire for radio valves)
1946 - 1959	:	University of Melbourne (Research Professor of Metallurgy)
1958	:	Australian Institute of Metals (Silver Medal)
1960 - 1964	:	University of Melbourne (first dean of the Faculty of Applied Science and personal chair)
1961	:	Australian Institute of Mining and Metallurgy (Medallist)
1962 - 1963	:	Royal Commission of Enquiry into the failure of the King's Bridge, Melbourne (Commissioner)
1965	:	University of Melbourne (Emeritus Professor)
1974	:	Monash University, Doctor of Engineering, 'Honoris causa'
1979	:	The Institution of Metallurgists (Honorary Fellow)
1981	:	Died 30 August, Australia

CONTENTS:

File No	File Number	File Title and Dates	Page
	1/1	Commencement Meeting [Tribute from Mr. H.H. Dunlop, J. Werner, Mr. H.K. Turner and Mr. J. ...] December 1951	5
Series 1	1/2	Biographical - Personal [Manuscript notes, press cuttings, photocopies] 1924-1934, 1935, 1968, 1981, 1986	5
Series 2		Subject Files [Correspondence, publications, minutes] 1945-1947, 1962-1965, 1971, 1974	5
Series 3		Talks and Addresses [Typescripts, manuscripts, press cuttings] 1934-1940, 1974, [1979]	6
Series 4		Publications 1940, 1963	7
Series 5		Photographs [1968]	7
Series 6		Material held by the C.S.I.R.O. Archives [Photocopies, list, correspondence] 1935, 1940, 1946, [1986]	7
Index		8
	2/2	Retirement from the Faculty of Applied Science, University of Melbourne and subsequently from his Personal Chair. [Includes Minutes of Appreciation] 1967 - 1968	
	2/3	'Structure and Functions of a Fourth University' [Submission to the Victorian Fourth University Committee] 10 March 1971	
	2/4	Honorary University, Doctor of Engineering, Honorary rank 11. 27 February 1974 Greenwood, Inverce, Faculty of Engineering, University of Melbourne 1 March 1974	

HANDLIST:

Series 1		Biographical - Personal
File Size in mm.	File Number	File Title and Dates
3	1/1	Commemoration Meeting [Tributes from Mr. H.H. Dunkin, Professor H.W. Worner, Dr. H.K. Worner and Mr. I.W. Morley] October 1981
2	1/2	Memoirs 1924 - 1934 [Photocopy of pages 59 - 67]
1	1/3	Press Cuttings [Table Talk, 7 March 1935; <u>University Gazette</u> , December 1968; Extract from a newspaper cutting held by the Registrar of the University of Manchester re appointment of Greenwood to the chair of metallurgy at the University of Melbourne, Photocopy of correspondence, 13 October 1986]
1	1/4	Obituary, Professor Emeritus John Neill Greenwood [Photocopy of a reprint from the <u>Proceedings of the Australasian Institute of Mining and Metallurgy</u> , No. 280, December 1981, pp. 4-7]
Series 2		Subject Files
2	2/1	Proposal for the Development of the School of Metallurgy. Correspondence with the Council for Scientific and Industrial Research [CSIR]. [includes the publication 'Baillieu Laboratory for Metallurgical Research' by Dr. J. Neill Greenwood, No Date] 31 July 1945 - 22 January 1947
5	2/2	Retirement from the Faculty of Applied Science, University of Melbourne and subsequently from his Personal Chair. [Includes Minutes of Appreciation] 1962 - 1965
2	2/3	'Structure and Functions of a Fourth University' [Submission to the Victorian Fourth University Committee] 10 March 1971
1	2/4	Monash University, Doctor of Engineering, 'Honoris causa' 11, 27 February 1974 Greenwood Theatre, Faculty of Engineering, University of Melbourne 1 March 1974

- Series 3 Talks and Addresses
- 10 3/1 'Instability in Alloys'
 [Presidential Address to the University of
 Melbourne Metallurgical Society]
 12 April 1934
 'What of our Metals'
 Herald, No Date
 'Mining and Metallurgy in the Commonwealth'
 Argus, 1936
 'Mining and Metallurgy in the Commonwealth during
 1937'
 Argus, [1937]
 'The Metallurgy School and the Community'
 [Correspondence 1937]
 'X-Rays and Metals'
 Herald, 1937
 'Metallurgical Training in War Time'
 No Date
 'The Metallurgy School and Total War Effort'
 No Date
 'Metallurgical Industry and the Defence Problem'
 Argus, February 1939
 [Dated December 1938]
 'Metals and War'
 No Date
 'The Metals we do not Produce'
 Argus, December 1939
 'Metallurgical Research in the University of
 Melbourne'
 No Date
 'The Influence of Service Conditions on Metal
 Compounds of Industrial Plant'
 No Date
 'Metals through the Ages'
 No Date
 'Additions to the Research Laboratories in the
 Metallurgy School of the University of
 Melbourne'
 The Australian Manufacturer, 1938
 'Where are our Metals?'
 Broadcast 3LO, Monday 5 February 1940
 'Using our Metals'
 Broadcast 3LO, Monday 12 February 1940
 'Metals we do not Produce'
 Broadcast 3LO, Monday 19 February 1940
 'The Iron and Steel Industry in the Commonwealth'
 No Date
 [Correspondence 1939]
- 3 3/2 An Address given at the Graduate Ceremony at Monash
 University
 3 April 1974
- 4 3/3 Development of the School of Metallurgy 1924/1965,
 University of Melbourne, Institution of
 Metallurgists
 No Date [1979]

- Series 4 Publications
- 8 4/1 Greenwood, J. Neill, Glossary of Technical Terms
 used in Metallography, University of Melbourne,
 School of Metallurgy
 June 1940
- 8 4/2 Report of the Royal Commission into the Failure of
 Kings Bridge, Victoria
 1963
- Series 5 Photographs
- 1 5/1 Noel Counihan Portrait
 [Two mounted colour photographs]
 No Date [1968]
- Series 6 Material held in the C.S.I.R.O. Archives
- 2 6/1 File compiled by Michael Moran, C.S.I.R.O. Deputy
 Archivist, indicating the type and breadth of
 records held by the C.S.I.R.O. Archives relating
 to Greenwood.
 [Photocopies, list, correspondence; major
 references - Sir David Rivett, Victorian
 Sub-Committee on Gold Investigations,
 A.J. McLaughlan, G. Lightfoot, J.E. Cummins,
 C.S.I.R./O. Staff File, Physical Metallurgy
 Section, Committee on Gas Cylinders]
 1935, 1940, 1946, 1949, 1986

INDEX:

This is a selective index to the handlist.

Appointment to the chair of metallurgy, University of Melbourne	1/3
Baillieu Laboratory	2/1, 3/1
Commemoration Meeting	1/1
Counihan, N.	5/1
C.S.I.R./O.	2/1, 6/1
Committee on Gas Cylinders	6/1
Physical Metallurgy Section	6/1
Staff File - Greenwood	6/1
Cummins, J.E.	6/1
Dunkin, H.H.	1/1
Faculty of Applied Science	2/2
Glossary of Technical Terms used in Metallography	4/1
Greenwood Theatre, Faculty of Engineering, University of Melbourne	2/4
The Institution of Metallurgists	3/3
Lightfoot, G.	6/1
McLaughlan, A.J.	6/1
Memoirs	1/2
Monash University, Honorary Degree	2/4
Morley, I.W.	1/1
Personal Chair	2/2
Portrait (photograph)	5/1
Radio Broadcasts	3/1
Retirement, Minutes of Appreciation	2/2
Rivett, Sir David	6/1
Royal Commission into the Failure of Kings Bridge, Victoria	4/2
School of Metallurgy	2/1, 3/1, 3/3
University of Melbourne Metallurgical Society	3/1
Victoria Fourth University Committee	2/3
Victorian Sub-Committee on Gold Investigations	6/1
Worner, H.K.	1/1
Worner, H.W.	1/1