



## THE UNIVERSITY OF MELBOURNE ARCHIVES

<b>NAME OF COLLECTION</b>	Reynolds, Leslie and Annie
<b>ACCESSION NO</b>	1983.0025
<b>CATEGORY</b>	University, individuals
<b>ACTIVITY</b>	Engineers, Teachers
<b>DATE RANGE</b>	1923-1941
<b>SIZE OF COLLECTION</b>	
<b>HISTORICAL NOTE</b>	<p>Leslie Arthur Reynolds matriculated on 1 March 1923 and enrolled in the Bachelor of Engineering at the University of Melbourne. He graduated with first class honours at the final exam on 19 Sep 1927. Between 1934 and 1938 he taught at Swinburne Technical College. His wife, Annie Frances Abrahams, enrolled in 1926 in the combined Honours course in English at the University, taught by A.R. Chisholm and V.N.T. Karagheusian. Annie graduated with a Bachelor of Arts (Honours) on 13 April 1929 and was awarded a Dip. Ed. in December 193; she was awarded a Master of Arts on 17 Dec 1960.</p>
<b>DATE OF TRANSFER</b>	May 1983
<b>ACCESS CONDITIONS</b>	Open
<b>DESCRIPTION</b>	<p>Lecture notes gathered while students at the University of Melbourne between 1923 and 1928. Subject matter includes Graphics, Town Planning, Architecture, Design, Hydraulic Engineering, Water Supply, Surveying and Natural Philosophy; numerous articles on the development of water supply and transport infrastructure in Australia. French and English lecture notes (1927-1928). Lecture notes for Swinburne Technical College (1934-1938) in various subjects including Hydraulics and Applied Mechanics.</p>
<b>NOTE ON COLLECTIONS</b>	
<b>NOTE ON LISTING</b>	

<b>LISTED BY</b>	Maria Pavone, Gavan McCarthy
<b>DATE</b>	24 August 1983

GROUP 1. L.A. REYNOLDS

Box 1	1/1	University of Melbourne Lecture Notes
	1/1/1	Graphics
	1/1/2	Town Planning
	1/1/3	Architecture
	1/1/4	Design 1923-1926
Box 2	1/1/5	Engineering 1924-1926
	1/1/6	Practical Books 1924-1926
Box 3	1/1/7	Geology
	1/1/8	Water
	1/1/9	Surveying
	1/1/10	Natural Philosophy 1924-1926 (with Publications 1928-1931)
Box 4	1/2	University of Melbourne Typed Lecture Notes
	1/2/1	Civil Engineering 1925
	1/2/1/1	Timber construction
	1/2/1/2	Arches
	1/2/1/3	Retraining walls and foundation pressures
	1/2/1/4	Reinforced concrete
	1/2/1/5	Foundations and higher structures
	1/2/1/6	Steel Work
	1/2/1/7	Electric welding
Box 5	1/2/1/8	Methods of executing work
	1/2/1/9	Tramways
	1/2/1/10	Locations of railways
	1/2/1/11	Roads
	1/2/1/12	Twon sanitation
	1/2/1/13	Yallourn power development
	1/2/2	Hydraulic Engineering
	1/2/2/1	Victorian water power schemes
	1/2/2/2	Reports on sewerage schemes
	1/2/2/3	Recent improvements on water power development
	1/2/2/4	Sewage and sewage disposal
	1/2/3	Surveying (artillery surveying)
	1/2/4	Mathematics Integals

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GROUP 1. L.A. REYNOLDS (cont.)

Box 6      1/3      Swinburne Technical College  
   1934-1941  
   Lecture Notes

                 1/3/1      Hydraulics I (Notes)  
                 1/3/2      Hydraulics I (Examples)  
                 1/3/3      Applied Mechanics 3A (Notes)  
                 1/3/4      Applied Mechanics 3A (Examples)

GROUP 2. ANNIE F. ABRAHAMS

Box 7      2/1      University of Melbourne  
   Lecture Notes

                 2/1/1      French 1927-1928  
   5 books

Boxes 8&9   2/1/2      English 1927-1928  
   10 books  
   Notice of OTA Reunion

Maria Pavone  
Gavan McCarthy  
Assistant Archivists

24 August 1983

THE UNIVERSITY OF MELBOURNE ARCHIVES

Records received into Custody

**NAME:** Reynolds, Leslie and Annie

**MAIN ACTIVITY:** Engineer and Teacher

**ACCESSION NO:** 83/25

**TRANSFEROR:** Mr and Mrs L.A. Reynolds

**DATE OF TRANSFER:** May 1983

**DATE RANGE:** 1923-1928

**QUANTITY:** 1.08 metres

**ACCESS:** O

**HISTORICAL NOTE:** Leslie Arthur Reynolds matriculated on 1 March 1923 and enrolled in the Bachelor of Engineering at University of Melbourne. He graduated with first class honours at the Final Honour Exam on 19 September 1927. Between 1934 and 1938 he taught at Swinburne Technical College.

His wife, Annie Frances Abrahams, enrolled in 1926 in the combined Honours course in English (taught by Professors R.S. Wallace and G.H. Cowling, Enid Derham and W.T. Price) and French (taught by A.R. Chisholm and V.N.T. Karagheusian). Annie graduated B.A. with honours on 13 April 1929 and was awarded a Dip. Ed. in December 1930 and an M.A. on 17 December 1960.

**SERIES TITLE:** Leslie Arthur Reynolds and Annie Frances Abrahams

**SERIES DESCRIPTION:**

This series consists of the lecture notes of Leslie and Annie Reynolds, gathered while they were students at University of Melbourne, between 1923 and 1928.

Leslie's notes are handwritten and grouped in folders by subjects, with other materials such as magazine articles on related subjects also included with the notes. Some of the notes are typed and were prepared by Melbourne University as handouts.

Annie's notes are hand-written and collected in notebooks. The Subjects covered are French and English with some of the notes in French.

Box No. Archive No. Description.

1 1/1 LECTURE NOTES - Handwritten.

**Leslie Arthur Reynolds**

These notes cover Graphics, Town Planning, Architecture, Design, Hydraulic Engineering, Civil Engineering, Structural Engineering, Electrical Engineering, Practical Books, Geology, Water Supply, Surveying, and Natural Philosophy. Also included are numerous articles on the development of water supply and transport infrastructure in Australia and elsewhere at this time (1923-1931)

1/1/1 GRAPHICS - Geometrical Drawing 1923

GRAPHICS First Term 1923

1/1/2 TOWN PLANNING Design 1926

1/1/3 ARCHITECTURE - Practical 1925

ARCHITECTURE - Historical 1925

1/1/4 DESIGN - Part I 1925

Design of Composite Timber and Steel Roof Truss

Design of Steel Arch Roof Truss

Design of Reinforced Concrete Footbridge

Design of a Steel Traveller

DESIGN - Part II 1926

Reinforced Concrete Elevated Tank

2 1/1/5 ENGINEERING

1/1/5/1 HYDRAULIC ENGINEERING

Tables Of Coefficients

Article from The Commonwealth Engineer February 1 1927. Yeates, John N. Storm Water Culverts in the City of Adelaide.

Article from The Commonwealth Engineer December 1 1924. George Higgins. Charts for Flow of Water in Channels

University of Melbourne. Engineering School.

Notes on Weirs (triangular notches)

General diagram of heads and corresponding discharges over sharp-crested weirs of various heights without end contractions. [diagram] 2 copies.

Heads and corresponding discharges over broad-crested weirs of various widths.[diagram] 2 copies.

Heads and corresponding discharges over irregular- crested weirs of right-line sections without end contractions. [diagram]

Box No. Archive No. Description

- 1 1/1/5/1 University of Melbourne. Engineering School. Notes.  
Heads and corresponding discharges over irregular- crested weirs of right line and curved sections without end contractions. diagram]  
Notes on Friction in pipes.  
Examples on flow of water in pipes.  
Diagram for calculating cast iron pipes.  
Rectangular Weirs, sharp-crested with full end contractions.
- 2 1/1/5/1 University of Melbourne. Engineering School. Notes.  
Disc friction  
Orifices  
Coefficients of Discharge for Weirs  
Flow of water in Channels  
Values of C in Formula  $V=C \sqrt{R S}$   
HYDRAULIC ENGINEERING - Extracts On Flow  
Articles from The Commonwealth Engineer February 1 1926 Taylor, F. Johnstone.  
The measurement of large volumes of water.  
The Webb Concrete Gun  
Articles from The Commonwealth Engineer August 1 1929. Escher, H.  
Measurement of fluids in pipe Lines - I & II  
Article from The Commonwealth Engineer January 1 1929. Notes on the Theory and design of fluid flow meters and the conditions under which they operate.  
Article from The Commonwealth Engineer May 1 1929.  
Wallace, R.C. Pumps.  
HYDRAULIC ENGINEERING - Prime Movers  
Lecture Notes 1925-1926  
HYDRAULIC ENGINEERING - Experiments On Flow  
HYDRAULIC ENGINEERING - Flow Of Water -  
Lecture Notes 1925

Box No. Archive No. Description

2 1/5/1/2 CIVIL ENGINEERING - Earth Works

Lecture notes 1926.

Article from The Victorian Railways Magazine April 1924. What Brunel did for a great railway.

Article from The Commonwealth Engineer April 2 1928. Holland Tunnel under the Hudson River U.S.A.

Articles from The Commonwealth Engineer March 1, 1929; July 1 1930. J.C. Coldham. Shield tunnelling under Stony Creek, Melbourne

CIVIL ENGINEERING - Economics -

Lecture Notes 1926

Article from The Commonwealth Engineer June, July, August 1919. Higgins, George. Economic comparison of engineering projects.

CIVIL ENGINEERING - Transportation

Lecture Notes 1926

Article from The Australian Municipal Journal August 15 1925. Higgins, George. Consideration of Traffic questions in Melbourne.

Article from The Victorian Railways Magazine June 1929. Payne, Henry. Communication as I see it.

Melbourne and Metropolitan Tramways Board.

Proposals for General Scheme 1923. [Map]

Article from Engineering and Manufacture December 15 1926. Nelson, W.M. Civic Transportation

Newspaper Articles - Street Passenger Services. The Age, September 21 1927

Melbourne Goods Sheds [pictures] from The Victorian Railways Magazine November 1924.

Article from The Victorian Railways Magazine March 1924 M.J.C. The Melbourne Yard

University of Melbourne. Engineering School. Notes.

Operation of Tramways, Trolley Omnibuses and Motor Omnibuses.

Tramways map for Melbourne. 192?

McKenzie, A.C. June 1922. Port Equipment in Australia. [Notes]



Box No. Archive No. Description

2 1/1/5/2 CIVIL ENGINEERING - Transportation

Newspaper article. Melbourne's Outlanders - Traffic facilities for dwellers in suburbs. The Herald, October 2 1926.

Newspaper article. How traffic is controlled in American streets. The Herald, December 30, 1926.

Three Aerial photographs: Spencer St Station, Flinders St Station. The Victorian Railways Magazine February, March, April 1925.

Victorian Railways pamphlet: Co-operate for efficiency. [1925]

Newspaper article: Are trams obsolete? [s.l.; s.n. 1925?]

Transactions of the Institution Vol 21 Sept 1940

Ashworth, John M. The Suburban railway system of Melbourne.

CIVIL ENGINEERING - Harbours

Lecture Notes 1926

Article from The Commonwealth Engineer Aerial photograph. Melbourne Harbour Trust River Improvements. January 1, 1927.

Cost calculations for Appleton Dock, Station Pier.

Articles from The Commonwealth Engineer

Harbours of Australia [Abstract of report on Transport in Australia...by Sir George Buchanan] May 2, 1927.

Reconstruction of Victoria Quay, Fremantle, W.A. June 1, 1927

Auckland Harbour: Wharfage and Equipment July 1, 1927

Reinforced concrete jetty on the north west coast of Western Australia. September 1, 1927.

The New Welland Ship canal between Lake Ontario and Lake Erie, Canada. October 1, 1927.

15,000-ton floating dock at Walsh Island, N.S.W. May 1, 1929.

New wharf at Port Adelaide. December 2, 1929.

The Port of Geraldton, Western Australia. May 1, 1931.

CIVIL ENGINEERING - Railways

References on Railways. (General)

Lecture notes and diagrams. 1926.

Marshalling yards

Box No. Archive No. Description

2 1/1/5/3 STRUCTURAL ENGINEERING - Bridge Design

Lecture Notes 1926.

STRUCTURAL ENGINEERING - Timber

Lecture Notes 1925.

STRUCTURAL ENGINEERING - Extracts

Tables, diagrams.

Wind Pressures. (Renfrey, Proc. Inst. of Civil Engineers 1922- 23, Part II)

A New conventional locomotive loading for railway bridges.

Value of equivalent uniform load per foot run...

Through truss with polygonal top chord.

Simple truss bridges - General proportions

Brake stresses in structures

Reinforced concrete slabs under concentrated loading

STRUCTURAL ENGINEERING - Papers

R.H.A.C. Notes on the Church St Bridge. Melbourne University Magazine [n.d.]

STRUCTURAL ENGINEERING - Specification For Design

Articles from The Commonwealth Engineer April 1, May 1, 1931. Dempster, M.G.

Specification for the design of road bridges (Parts I and II)

Country Roads Board. Timber stresses [table]

STRUCTURAL ENGINEERING - Strength Of Materials

Lecture notes 1924

Article from The Commonwealth Engineer November 1 1928. Blackwood, R.R.

Structural materials testing laboratory of the Melbourne University

Article from The Commonwealth Engineer October 1 1926. 1250-Ton Testing machine

Box No. Archive No. Description.

- 2        1/1/5/4 MECHANICAL ENGINEERING - Engineering Design  
Lecture Notes and diagrams 1924  
MECHANICAL ENGINEERING - Heat Engines  
Lecture notes 1926  
MECHANICAL ENGINEERING - Aerodynamics  
Lecture Notes 1924  
1/1/5/5 ELECTRICAL ENGINEERING  
Lecture Notes and table, 1926  
1/1/6 PRACTICAL BOOKS  
ELECTRICAL ENGINEERING Part I.  
Report on Practical work 4th year B.C.E. 1926  
STRENGTH AND ELASTICITY OF MATERIALS.  
Report Book 1924.
- 3        1/1/7 GEOLOGY Part 1.  
Notes and geological maps 1925  
Reports on excursions 3rd year B.C.E 1925  
GEOLOGY - Road Metals, Etc  
Lecture notes, table 1925  
GEOLOGY (PALAEOLOGY)  
Lecture notes, tables, diagrams 1925  
GEOLOGY (GENERAL)  
Lecture notes 1925  
1/1/8 WATER SUPPLY Conservation  
Lecture notes 1926  
Article from The Commonwealth Engineer June 1 1928. Sutherland, R.A. Some aspects of the cost of water conservation  
Table: Rainfall of Victoria 14/7/1911 Barachi, V.  
Article from The Commonwealth Engineer November 1 1928. Dare, H.H. The Wyangala dam on the Lachlan River, N.S.W.  
Article from The Commonwealth Engineer May 1 1929. The Silverwood dam and spillway.  
Articles from The Commonwealth Engineer August 1, October 1, 1929. Subsidence at Sugarloaf Dam, Victoria.  
Article from The Commonwealth Engineer April 2, Brisbane Water Supply.

Box No.	Archive No.	Description
3	1/1/8	<p>WATER SUPPLY - Conservation</p> <p>Article from <u>The Commonwealth Engineer</u> August 1, 1928. Stock and domestic water supply development in the Mallee area of New South Wales.</p> <p>Hume Reservoir- Statistics</p> <p>WATER SUPPLY Conservation - Papers</p> <p>Articles from <u>The Commonwealth Engineer</u>, March 2 1931. The Woronora Dam. June 2, 1930. The Burrinjuck Reservoir, N.S.W.</p> <p>July 1 1930 Large Spillway Gates at Hume Dam</p> <p>April 1 1931 The Hume Dam</p> <p>July 1 1931 The Pondage Factor in Spillway Design</p> <p>WATER SUPPLY - Conveyance</p> <p>Notes and General equations for non uniform flow</p> <p>Articles from <u>The Commonwealth Engineer</u>. December 1 1926</p> <p>Flexible pipe joints</p> <p>January 1 1929 Steel main 35 years old lifted and reconditioned</p> <p>February 1 1929 Replacing water service pipes without disturbing road services</p> <p>June 1 1927 The Deaeration process for the prevention of corrosion in the W.A. goldfields pipe line.</p> <p>July 2 1928 Electrolytic destruction of pipes</p> <p>March 1 1926 Melbourne water supply and sewerage</p> <p>January 1 1927 Leakage test on reinforced concrete pipe line</p> <p>WATER SUPPLY - Reticulation</p> <p>Lecture Notes 1926</p> <p>Article from <u>The Commonwealth Engineer</u> January 2 1928. Streeter, H.W. Water works practice in Great Britain</p> <p>Reports by Messrs Avery &amp; Anderson No. 1 Analysis of water</p> <p>No. 2 Sedimentation tests on water from Latrobe River on which scheme for water supply of Yallourn was based.</p> <p>MMBW service reservoirs capacity</p>

Box No.	Archive No.	Description
3	1/1/8	<p>WATER SUPPLY - Purification</p> <p>Lecture Notes 1926</p> <p>WATER SUPPLY - Irrigation - Notes -</p> <p>Absorption, leakage and evaporation when water flows in channels</p> <p>Scouring velocities</p> <p>Farm ditches</p> <p>Lecture notes 1926</p> <p>WATER SUPPLY - River Control</p> <p>Notes</p> <p>WATER SUPPLY - Papers</p> <p>Student Report on Maroondah Dam 1925</p>
3	1/1/9	<p>SURVEYING I</p> <p>Lecture Notes 1924</p> <p>SURVEYING II</p> <p>Lecture Notes 1924</p> <p>SURVEYING II</p> <p>Problems</p>
3	1/1/10	<p>NATURAL PHILOSOPHY II - Mechanics, Thermodynamics, Heat</p> <p>Lecture notes 1924</p> <p>NATURAL PHILOSOPHY II - Molecular Theory, Spectroscopy, Sound, Radiant</p> <p>Heat, Light</p> <p>Lecture Notes 1924</p> <p>NATURAL PHILOSOPHY II - Electricity</p> <p>Lecture notes 1924</p>

Box No. Archive No. Description

4 1/2 LECTURE NOTES - Typewritten 1925-26

This series consists of notes produced by the University of Melbourne Engineering School for handouts to students. They have been collected in folders for each topic.

1/2/1 CIVIL ENGINEERING - NOTES

1/2/1/1 Timber Construction 1926

1/2/1/2 Design of fixed Arches [n.d.]

1/2/1/4 Reinforced Concrete, 1925

1/2/1/5 Foundations and Higher Structures, 1925

1/2/1/6 Notes on Steel Construction 1925

Article from The Commonwealth Engineer May 1 1923.

Upton, T.H. Design of steel frame buildings in Australia.

1/2/1/7 Electric welding for structural work [n.d.]

5 1/2/1/8 Methods of executing work, 1926

1/2/1/9 Course of lectures on Tramways 1925

1/2/1/11 Lectures on roads 1926

1/2/1/12 Town sanitation 1925

1/2/1/13 State Electricity Commission of Victoria. Description of Yallourn works

1/2/2 HYDRAULIC ENGINEERING.

Typed Lecture Notes

1/2/2/1 Kiewa Hydroelectric scheme and auxiliaries, 1920.

1/2/2/2 Reports of Sewerage Schemes, 1926

1/2/2/3 Recent improvements in water power development

1/2/2/4 Sewage and Sewage disposal, 1925

5 1/2/3 SURVEYING.

Typed Lecture notes

Artillery surveying.

1/2/4 MATHEMATICS.

List of Integrals

6 1/3 LECTURE NOTES. Swinburne Technical College, 1934-1938

These notes and examples were used by Leslie Reynolds during the time he taught at Swinburne Technical College, between 1934 and 1938.. Most are handwritten.

1/3/1 HYDRAULICS I - Notes. 1931

1/3/2 HYDRAULICS I Examples (1934-1938)

1/3/3 APPLIED MECHANICS IIIA. Syllabus and Notes. 1931

1/3/4 APPLIED MECHANICS IIIA. Examples

Box No. Archive No Description

7 2/1 LECTURE NOTES. 1927-1928

**Annie Frances Abrahams.**

These notes were taken by Annie Frances Abrahams during lectures at the University of Melbourne between 1927 and 1928. The notes are handwritten in notebooks, with some of French notes written in French.

2/1/1 FRENCH 1927-1928

Lecture Notes

2/1/1/1-2/1/1/5 Lecture Notes for French Literature. (Some in French)

5 notebooks

8 2/1/2 ENGLISH 1927-1928

Lecture Notes

2/1/2/1-2/1/2/5 Lecture Notes for English

5 notebooks

2/1/3 NOTICE OF OTA (Old Teachers Association) REUNION

One Page Notice (193?)

9 2/1/2/6- English notes 1927-28

2/1/2/110

Dianne McGowan

6 April 1998