



THE UNIVERSITY OF
MELBOURNE

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NAME OF COLLECTION	Anthony George Maldon Michell
ACCESSION NO	2011.0088
CATEGORY	
ACTIVITY	Business
DATE RANGE	1920-1959
SIZE OF COLLECTION	1 Type 2 box and five blue print plans
HISTORICAL NOTE	<p>Anthony G M Michell (1870 – 1959) is renowned internationally for his brilliant invention of the Tilting Pad Thrust Bearing, which carries the fore-and-aft load on ship propeller shafts. It overcame lubrication failure, which was a major shortcoming of existing bearings hindering ship development in the early twentieth century.</p> <p>The Michell bearing rapidly spread worldwide, notwithstanding a competing invention and patent, which effectively locked out the US market. The commercialisation process of the thrust bearing was undertaken through a joint venture of Michell Bearings Ltd with H B Scott that was based in Newcastle on Tyne, UK.</p> <p>The genius of Michell's thrust bearing lies in it having one of the mating faces replaced by a bracelet of tilting pads that face the direction of circular motion and adjust themselves to a wide range of fluid dynamic loadings. In this way even severe operating conditions are supported without lubrication break down and consequent bearing failure.</p> <p>Michell is remembered as one of the School's most distinguished alumni graduating with a Bachelor of Civil Engineering in 1895 and a Master of Civil Engineering in 1899. He was awarded the Kernot medal of the University of Melbourne in 1939 and the 1942 Watts Medal from the Institute of Mechanical Engineers.</p>
DATE OF TRANSFER	26 August 2011
ACCESS CONDITIONS	Open
LISTED BY	Melinda Barrie
DATE	20 June 2012

2011.0088, Anthony George Michell 1920-1959

Item Number	Title	Date	Description	Unit/Box
2011.0088.0001	Correspondence death of AGM Michell	March 1959		2011.0088 Unit 1
2011.0088.0002	Notes on Lubrication by AGM Michell	c. 1925		2011.0088 Unit 1
2011.0088.0003	Diagrams of tests carried out by Mr AGM Michell on his original pivotted thrust bearing	4 September 1937		2011.0088 Unit 1
2011.0088.0004	AGM Michell James Watt Medal	1942		2011.0088 Unit 1
2011.0088.0005	Correspondence Thrust Bearing Block	September 1936		2011.0088 Unit 1
2011.0088.0006	Correspondence with business associates	1938-1945		2011.0088 Unit 1
2011.0088.0007	Tests on Thrust Bearings	4 January 1929 - 7 October 1936		2011.0088 Unit 1
2011.0088.0008	Technical Diary	1923-1927		2011.0088 Unit 1
2011.0088.0009	No 8 Type E Vertical Michell Thrust & Journal Bearing Fitted with Cooling Coils	7 April 1927	Drawing number 4208	2011.0088 Unit 2
2011.0088.0010	No 8 Type E Vertical Michell thrust & Journal Bearing Fitted with Cooling Coils	19 July 1927	Drawing number 4299	2011.0088 Unit 3
2011.0088.0011	85 Ton Michell Vertical Thrust & Journal Bearing	5 June 1937	Drawing number 4955	2011.0088 Unit 4
2011.0088.0012	Details of No 5 Vertical thrust & Journal Bearing (copy)	5 August 1931	Drawing number 4813	2011.0088 Unit 5
2011.0088.0013	Michell Seggell Floating Pro Journal Bearing	c. 1925	Drawing number 482868	2011.0088 Unit 6