

**ROYAL AIR FORCE MUSEUM**  
**Department of Research and Information Services**

**Accession List**

**AC93/8      Papers of Mr John Henry Broughton Larrard, 1922-1975**

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*Mr John Henry Broughton Larrard CBE C.Eng FRAeS FI.Prod.E was born 25 September 1895. He was commissioned as a Second Lieutenant into the Royal Engineers on 30 March 1922.*

*An aviation engineer, he was Technical Officer in the Airworthiness Department, Royal Aircraft Establishment (RAE) Farnborough, 1922-1934.*

*He transferred to the Air Ministry and served as Assistant Director, Aeroplane Production with the Ministry of Aircraft Production, 1940-1942.*

*From 1942-1945 Larrard served as Deputy Controller, Ministry of Aircraft Production, Ministry of Production Northern Ireland and was a member of the Northern Ireland Government Production Council.*

*From 1945-1953 he was Regional Controller, Ministry of Supply for the South-West region and from 1953-1957, Regional Controller, Board of Trade and Ministry of Supply for the region.*

The collection relates mainly to the development of in-flight refuelling at Royal Aircraft Establishment (RAE) Farnborough. It includes forms, certificates, patents and other technical documents.

<b>Object Number</b>	<b>AC93/8/1</b>
<b>Title</b>	<b>Career summary of Mr John Henry Broughton Larrard, 1973</b>
Maker Name	IPC Business Press
Maker Role	Author
Content Note	Copy of a directory entry describing his career, attached to a letter asking for updates.
Production Date	24 May 1973
Brief Description	Cutting on A4 sheet.
<b>Object Number</b>	<b>AC93/8/2</b>
<b>Title</b>	<b>Commission certificate of 2Lt John Henry Broughton Larrard, 1922</b>
Maker Name	War Office
Maker Role	Issuing Authority
Content Note	Larrard's commission into Royal Engineers.
Production Date	20 October 1922
Brief Description	Folded commission.
<b>Object Number</b>	<b>AC93/8/3</b>
<b>Title</b>	<b>Patent specification: Improvements in aircraft framework, 1925</b>
Maker Name	H.M.Patent Office
Maker Role	Issuing Authority
Content Note	Relates to an improved method of girder construction.
Production Date	29 July 1925
Brief Description	Folded booklet.
<b>Object Number</b>	<b>AC93/8/4</b>
<b>Title</b>	<b>Three letters relating to technical control of Albemarle aircraft, 1939-1940</b>
Maker Name	Air Ministry
Maker Role	Issuing Authority
Content Note	Reports that Larrard has been made responsible for the production of Albemarle aircraft.
Production Date	1939-1940
Brief Description	Four typescript sheets. Fragile papers.

<b>Object Number</b>	<b>AC93/8/5</b>
<b>Title</b>	<b>Two letters concerning "Invention relating to aircraft and other vehicles patent 21000/30 (356862)", 1932</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Issuing Authority
Content Note	Letter allowing Larrard to deal in the commercial rights of this invention.
Production Date	February 1932
Brief Description	Two typescript sheets. Fragile papers.
<b>Object Number</b>	<b>AC93/8/6</b>
<b>Title</b>	<b>Miscellaneous papers and cuttings about in-flight refuelling, n.d.</b>
Maker Name	Imperial Airways
Maker Role	Maker
Content Note	Includes documents about Imperial Airways routes and the flight of Mrs Victor Bruce.
Production Date	Circa 1930s
Brief Description	Papers and cuttings of various sizes.
<b>Object Number</b>	<b>AC93/8/7</b>
<b>Title</b>	<b>Three mounted photographs of in-flight refuelling, 1929-1930</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Photographer
Content Note	One photo is of a world record attempt in Chicago, for time spent in the air, the others form a series showing in-flight refuelling from the air.
Production Date	1929-1930
Brief Description	Medium sized mounted prints.
<b>Object Number</b>	<b>AC93/8/8</b>
<b>Title</b>	<b>Two RAE reports and one memorandum on wing tip to wing tip refuelling, 1933</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Author
Content Note	Reports on experiments with a Vickers Virginia.
Production Date	January 1933
Brief Description	Five foolscap sheets.

**Object Number** AC93/8/9  
**Title** RAE report K.2584 on tests leading to the refuelling of Virginia aircraft in flight, 1932

Maker Name Royal Aircraft Establishment (RAE) Farnborough  
 Maker Role Author  
 Content Note Reports on experiments with a Virginia using tail turret method. Two copies, one with attached plans and illustrations.

Production Date November 1932  
 Brief Description Foolscap sized reports.

**Object Number** AC93/8/10  
**Title** RAE report K.2524: Further experiments on the refuelling of aircraft in flight, 1931

Maker Name Royal Aircraft Establishment (RAE) Farnborough  
 Maker Role Author  
 Content Note Report on tests with Virginias, primarily to test the refuelling apparatus.

Production Date November 1931  
 Brief Description Foolscap sized report, eight pages.

**Object Number** AC93/8/11  
**Title** RAE report EE108: Investigation of the risk of petrol fires resulting from frictional electricity, 1929

Maker Name Royal Aircraft Establishment (RAE) Farnborough  
 Maker Role Author  
 Content Note Report into the safety issues of in-flight refuelling.  
 Production Date 29 October 1929  
 Brief Description Foolscap sized report, 10 pages.

**Object Number** AC93/8/12  
**Title** RAE report K.2458: Report on experiments in connection with refuelling Virginia aircraft in the air, 1930

Maker Name Royal Aircraft Establishment (RAE) Farnborough  
 Maker Role Author  
 Content Note Experiments based around delivering fuel to the gunner's cockpit in the aircraft tail.

Production Date September 1930  
 Brief Description Foolscap sized report, seven pages.

<b>Object Number</b>	<b>AC93/8/13</b>
<b>Title</b>	<b>Refuelling of aircraft in flight, RAE tail turret method, 1932</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Author
Content Note	Report suggests the experiments with the tail turret method be discontinued.
Production Date	July 1932
Brief Description	Foolscap sized report, eleven pages.
<b>Object Number</b>	<b>AC93/8/14</b>
<b>Title</b>	<b>RAE report K.2508: The refuelling of aircraft in flight, 1931</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Author
Content Note	Review of the experiments so far carried out in this area.
Production Date	August 1931
Brief Description	Foolscap sized report, fourteen pages.
<b>Object Number</b>	<b>AC93/8/15</b>
<b>Title</b>	<b>Two patent specifications 346/181 and 351/172: "A method and apparatus for tanking aircraft in the air", 1930</b>
Maker Name	H.M.Patent Office
Maker Role	Issuing Authority
Content Note	Two specifications for methods and apparatus of tanking aircraft in the air.
Production Date	1930
Brief Description	Two booklets.
<b>Object Number</b>	<b>AC93/8/16</b>
<b>Title</b>	<b>RAE report K.1867: Experiments on refuelling between aeroplanes in flight, 1924</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Author
Content Note	Early experiments to investigate the possibility of in-flight refuelling.
Production Date	24 March 1924
Brief Description	Foolscap sized report seven pages.

<b>Object Number</b>	<b>AC93/8/17</b>
<b>Title</b>	<b>Patent specification 236/698: "Means for supplying aircraft with fuel in flight", 1924</b>
Maker Name	H.M.Patent Office
Maker Role	Issuing Authority
Content Note	Early in-flight refuelling inventions.
Production Date	12 May 1924
Brief Description	Booklet.
<b>Object Number</b>	<b>AC93/8/18</b>
<b>Title</b>	<b>Mounted photographic sequence of trial refuelling of Virginia aircraft, 1929</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Photographer
Production Date	06 October 1929
Brief Description	Photographic sequence of trial refuelling of Virginia aircraft, port side views. Mounted print.
<b>Object Number</b>	<b>AC93/8/19</b>
<b>Title</b>	<b>Three plans of in-flight refuelling equipment, 1931</b>
Maker Name	Saunders-Roe
Maker Role	Maker
Content Note	Plans for methods of making contact on flight.
Production Date	1931
Brief Description	Small copies of plans.
<b>Object Number</b>	<b>AC93/8/20</b>
<b>Title</b>	<b>Folder entitled "Refuelling in the air", contains miscellaneous sketches, cuttings etc, circa 1930</b>
Content Note	Various newspaper articles about pioneering long distance flights and sketches about refuelling.
Production Date	Circa 1930
Brief Description	Sketches and newspaper cuttings.
<b>Object Number</b>	<b>AC93/8/21</b>
<b>Title</b>	<b>Note to Mr John Henry Broughton Larrard about take off difficulties and in-flight refuelling, 1936</b>
Content Note	Note in reply to one of Larrard's reports.
Production Date	24 October 1936
Brief Description	One sheet of lined paper.

<b>Object Number</b>	<b>AC93/8/22</b>
<b>Title</b>	<b>Memorandum on a new proposal for assisting take-off of heavily laden aircraft, n.d.</b>
Content Note	Report by Larrard about this area.
Production Date	Circa 1950s
Brief Description	Two fragile typed sheets.
<b>Object Number</b>	<b>AC93/8/23</b>
<b>Title</b>	<b>Static electricity in relation to refuelling in flight</b>
Maker Name	Marcus Langley, Flight Refuelling Limited
Maker Role	Author, Publisher
Content Note	Discussion of how this subject relates to in-flight refuelling.
Production Date	1938
Brief Description	Small white covered booklet.
<b>Object Number</b>	<b>AC93/8/24</b>
<b>Title</b>	<b>Copy of the Journal of the Royal Aeronautical Society, including an article by Larrard on in-flight refuelling, 1931</b>
Maker Name	Royal Aeronautical Society
Maker Role	Publisher
Content Note	An example of Larrard's presentation of his ideas to his peers.
Production Date	December 1931
Brief Description	Light blue magazine.
<b>Object Number</b>	<b>AC93/8/25</b>
<b>Title</b>	<b>Copy of the Journal of the Royal Aeronautical Society, including an article by J.A. Miller on the history of in-flight refuelling, 1960</b>
Maker Name	Royal Aeronautical Society, J.A. Miller
Maker Role	Publisher, Author
Content Note	The history of this subject, which includes a mention of Larrard.
Production Date	November 1960
Brief Description	Light blue magazine.

<b>Object Number</b>	<b>AC93/8/26</b>
<b>Title</b>	<b>Extracts from Aerospace magazine concerning the history of in-flight refuelling, 1975</b>
Maker Name	Aerospace Publications
Maker Role	Publisher
Content Note	The history of this subject, which includes a mention of Larrard's work.
Production Date	1975
Brief Description	Magazine pages.
<b>Object Number</b>	<b>AC93/8/27</b>
<b>Title</b>	<b>RAE report K.2538 with attached plan: Combined seat, safety harness and quick release gear, 1932</b>
Maker Name	Royal Aircraft Establishment (RAE) Farnborough
Maker Role	Issuing Authority
Content Note	Report about this invention and its testing.
Production Date	January 1932
Brief Description	Four foolscap sized pages.
<b>Object Number</b>	<b>AC93/8/28</b>
<b>Title</b>	<b>Dossier entitled "Notes on the post-war possibilities of civil aviation and the aircraft industry in Northern Ireland", 1943</b>
Maker Name	John Larrard
Maker Role	Author
Content Note	A dossier which presents some of the salient points likely to affect post war aeronautical problems in Northern Ireland.
Production Date	October 1943
Brief Description	Typescript in beige folder.
<b>Object Number</b>	<b>AC93/8/29</b>
<b>Title</b>	<b>Folder of items relating to Larrard's time as Deputy Controller, Ministry of Aircraft Production and Ministry of Supply, Northern Ireland, circa 1942-1945</b>
Maker Name	John Larrard
Maker Role	Compiler
Content Note	Variety of items reflecting Larrard's time in these posts.
Production Date	Circa 1942-Circa 1945
Brief Description	Folders, papers and newspaper cuttings.

<b>Object Number</b>	<b>AC93/8/30</b>
<b>Title</b>	<b>Annotated map of Northern Ireland showing existing aerodromes and those under construction, 1943</b>
Content Note	Map and explanatory notes.
Production Date	22 July 1943
Brief Description	Map and attached notes.
<b>Object Number</b>	<b>AC93/8/31</b>
<b>Title</b>	<b>Collection of official photographs of site visits collected during Larrard's time as Regional Controller, South-West region, Ministry of Supply and Board of Trade, 1947-1957</b>
Maker Name	John Larrard
Maker Role	Compiler
Content Note	Wide variety of group photographs at a number of locations.
Production Date	1945-1957
Brief Description	Assorted prints.
<b>Object Number</b>	<b>AC93/8/32</b>
<b>Title</b>	<b>Programme: Industrial tour by Party D, Imperial Defence College, South-Western region, 1956</b>
Maker Name	Imperial Defence College
Maker Role	Issuing Authority
Content Note	Tour includes industrial sites in the South-West of England.
Production Date	April 1956
Brief Description	Foolscap sized programme.
<b>Object Number</b>	<b>AC93/8/33</b>
<b>Title</b>	<b>Illustrated dossier: National Defence College of Canada, South-Western region industrial tour, 1954</b>
Maker Name	Board of Trade, Ministry of Supply
Maker Role	Maker, Maker
Content Note	Programme for a tour of industrial sites organised by Larrard.
Production Date	1954
Brief Description	Foolscap sized programme.

**Object Number** AC93/8/34  
**Title** **Dossier: National Defence College of Canada, South-Western Region industrial tour, 1955**  
Maker Name Board of Trade, Ministry of Supply  
Maker Role Maker, Maker  
Content Note Programme for a tour of industrial sites organised by Larrard.  
Production Date 1955  
Brief Description Foolscap sized programme.

**Object Number** AC93/8/35  
**Title** **Folio of posters: Second World War, circa 1944**  
Content Note Posters in the "For Victory" series of various aircraft and explanation of their roles.  
Production Date Circa 1944  
Brief Description In large bound folio.