

A guided tour of the Rolls Royce Heritage Trust Exhibition at Derby has been arranged for 15 branch supporters on Wednesday 23rd April, 1600 – 1730.

Please reply to loughborough@aerosociety.com if you would like to register for this tour. There is no charge. Attendees will be required to provide their own transport to the Heritage Centre (Rolls-Royce Derby Campus, Wilmore Road, DE24 9BD).

Places will be allocated on a first come, first served basis. Non-RAeS member applicants should note that priority will be given to paid-up branch members. Successful applicants will be notified by the end of March.

This exhibition is situated in the Rolls-Royce Learning and Development Centre in the Aerospace campus in Derby and tells the story of the Rolls-Royce range of products, with exhibits from before the First World War through to the modern civil large turbofans. The exhibition today contains over thirty Rolls-Royce engines ranging from Henry Royce's first Aero engine, the V12 Eagle of 1915, through the Merlin and the RB211-22 to the Trent XWB of today.

The development of the aero engine, over the last century, has enabled many of the major advances in aviation to take place and with Engineering being the "art of compromise" to meet the best balance of the customer's requirements, it is not surprising that different engineers from various companies have designed different solutions to meet these requirements. It is the object of this exhibition to show the advances in propulsion technology and these different solutions, so visitors can compare and contrast the various approaches, whether they be liquid or air-cooled piston engines or two or three shaft gas turbines.

The facility is used in the development of current Rolls-Royce employees and in the teaching of STEM subjects in schools and colleges and promoting the story to the public to intrigue and inspire.

A selection of the following exhibits is on display:

General:

- 20hp 1926 Rolling Chassis
- WW2 Memorial Window "This window commemorates the pilots of the Royal Air Force who in the Battle of Britain turned the work of our hands into the salvation of our country".
- Bust of Charles Stewart Rolls Bust of Frederick Henry Royce Bust of Ernest Hives
- Bust of Claude Johnson Henry Royce Lathe Royce Motor
- Henry Royce Clock Schneider Trophy 1929 R Engine Piston, Plug and Connecting Rods
- Flying Model aircraft of the Wellington and Halifax Bombers,
- Sunderland Flying Boat and Bell Boeing V-22 Osprey
- Interactive Screens

Piston Engines:

Eagle Mk IX Hawk Condor III Kestrel IIS Merlin Mk 1 Merlin III Supercharger
Merlin Mk XII Griffon 65 Meteor Mk IV

Turboprop Engines:

Dart Mk 510 Tyne Mk 506 Allison T-56 V-1710 RB39 Clyde RB50 Trent

Rockets:

Armstrong Siddeley Screamer Rolls-Royce Gamma 8 Bristol Siddeley BS605

Aircraft:

English Electric Canberra Cockpit

STOVL Propulsion:

RB162 Pegasus

Turboshaft:

Allison M250

Diesel Engines:

CV12

MTU Series 2000

Turbofan / Turbojet Engines:

RB23 Welland RB41 Nene RB37 Derwent V Rover STX B26 Compressor Impeller

Avon Mk 1C RB80 Conway RB163 Spey Adour F405 RB211-22B RB199

RB203

Tay Olympus 593 BR710 AE 3007 Trent 1000 half scale Lego Engine Trent

XWB-84

Future Technology:

1:1 Scale Model Aircraft of the Spirit of Innovation

- Full-scale model of the Rolls-Royce UltraFan engine
- A model of a small modular reactor
- Hydrogen Demo Engine AE 2100-A
- UltraFan Power Gearbox - 1st standard