



'RADAR IN THE AIR' DEHS 2025 CONFERENCE SATURDAY 16 AUGUST 2025

The Martlesham and Bawdsey 2025 event will take place on Friday 15 and Saturday 16 August, and has been arranged in two parts – the Friday events, at the BT Research Centre at Martlesham, is arranged for the general public on the Friday morning, of the origins of airborne radar and of the General Post Office contribution to radar; on Friday afternoon, the history is presented in greater detail for those with a more technical background. Details and booking forms for the Friday sessions will be circulated separately.

On Saturday 16 August, the 2025 DEHS Conference 'Radar in the Air' and AGM will be held at the Bawdsey Radar Trust Museum, Ferry Road, Bawdsey IP12 3AT, and will be exclusive to DEHS members, for whom the Bawdsey Radar Trust have most kindly arranged a special opening of the Transmitter Block and its excellent displays. The DEHS Conference will take the form of a detailed re-examination of the development of airborne radar from newly-discovered original documents by Professor Simon Watts and from a new major display of the original equipment as re-created by DEHS master craftsman Tony Waller. Members' questions will be actively encouraged and discussed – feel free to disagree with our experts!

Tea and coffee will be available from 10.00am. Registration will open at 10.30 and lectures will end around 1.00pm. The DEHS Annual General Meeting will be held during the morning. Podcast recording will take place during the Conference, so if you have a story to contribute, or if you do not wish to be interviewed, please let me know. **THERE WILL BE NO CHARGE TO MEMBERS FOR THIS SATURDAY EVENT**, but please note that members will be responsible for sourcing and funding their own accommodation and meals – DEHS is not a travel agency!

The first lecture, by Dr Phil Judkins, will set a general background – itself with surprising findings! – and two lectures then concentrate on the equipment. Simon Watts will describe the system development of Air Intercept (AI) radars I to IV, and of Air to Surface Vessel (ASV) I, using the hardware displays to show the systems as they developed, what they looked like, how they were used and how well (or not) they worked. In a second talk, Simon go into detail of specific aspects of airborne radar technology with its roots in Bawdsey Manor, and discuss Antenna technology for bearing measurement and for long-range ASV; transmitter design including the benefits and limitations of the 'squegging' transmitter and the design of the Modulator 20 for AI Mk. IV; receiver design leading to the 'Pye strip'; aerial switch motors, the common TR switch boxes and the US polyplexer; polythene coaxial cables; and the problems of power supply, leading to the design of engine-driven generators.

For drivers, take the A12 to Woodbridge, turning off on the A1152 to Melton. Beyond Melton, take the B1083 and continue on it to Alderton beyond which the B1083 continues as Ferry Road to the village of Bawdsey; go through Bawdsey village and continue on Ferry Road towards the ferry itself, and the entrance to the Transmitter Block is on the left and is signposted.

Please send completed forms as soon as possible to:

Dr Phil Judkins, Chairman, Defence Electronics History Society, 18 St John's Square, Wakefield WF1 2RA

WE LOOK FORWARD TO SEEING YOU!



I will be attending the DEHS Conference and AGM on Saturday 16 August 2025:

Name(s):

Address:

.....Postcode:

E-mail:Tel: