

# e-DEFENCE ELECTRONICS NEWSLETTER

#### The e-NEWSLETTER OF THE DEFENCE ELECTRONICS HISTORY SOCIETY

## **INDEX**

#### **NUMBERS 1 - 80**

Index references are to the single-column version of *eDEN* and take the form of the *eDEN* issue number followed by the page number on which the article starts.

£5 Prize Competition: What and Where? <i>Dr Mike Diprose</i>	74/97
£5 Competition Answer What and Where? Dr Mike Diprose	75/98
1,25cm H2K RT-63/APS <i>Tatjana Joëlle van Vark</i>	53/125
5 Group RAF Signals and Radar History	29/4
200-Mc/s Radar Interrogator-Beacon Systems Keith Wood	72/72
2015 Restoration Award: Electronics Restoration Trust, for GEE Mk I	41/3
2016 Restoration Award – Tatjana Joëlle van Vark, Vulcan Radar NBS-H2S	Mk 9 49/1
- Interview with Tatjana Joelle van Vark- H2S Mk 9/NBS; 'Miniature H2S'	50/74
2017 Christmas Quiz - Answers	66/8
2019 Long-term Preservation Conference <i>Dr Mike Diprose</i>	67/6, 68/5
'A' Scan to PPI in the RCAF The late F/Lt Gil Edgerton & F/Lt James Leach	RCAF 49/44
"A Machine Has Flown" - The First Drone? Greg Howard	54/13
'A Voice and Nothing More: 22 Sqn & radio telephony WFJ Harvey 59/26,	60/7, 61/23
'A Voice' II: Telephone Wireless Aircraft Mk II: Set, Receiving (1918)	62/19
'A Voice and Nothing More': WFJ Harvey	63/7
'A Voice and Nothing More': WFJ Harvey	64/20
'A Voice and Nothing More': WFJ Harvey	65/21
AA Equipment during World War II the late WO1 Jim Humphreys	30/25
Abbreviations: CEC John 'Jacey' Wise	48/31
ACE HIGH	8/7
ACE HIGH: the NATO tropospheric link, Feldberg to Dosso dei Galli Hans J	lucker 9/5
ACE HIGH: the NATO tropospheric link. Richard Stoodley	10/5
Acord Valves Rod Burman	37/13
Admiralty P24 Receiver Andy Young/ Clive Kidd/ Lt Cdr. Brian Witts MBE	75/90
Admiralty Type 74X Mystery S/Ldr Mike Dean MBE	43/11, 45/8
Al and H2S: Professor Dee's reminiscences	53/87
Al SS – Mike Dean	4/14
Airborne Detection of Submarines	69/70

Aircraft Wireless: Sterling Transmitter & Clapper Break Jeff Jefford & Mike Dea	an 61/6
Air Controlled Interception - 1 The First Experiments R Hodges/ M Dean	32/11
Air Interception Radar Explained, WW2 Allied Air Publication 1093D	71/7
Air Raid Warning System G B W Harrison	35/11
Airborne Alternators, Introduction of E G 'Taffy' Bowen	57/28
Airborne Radar and the Army R Hanbury Brown	73/29
Aircraft Procurement under Labour 1964-70: Some Myths Richard Moore	64/103
Airfield Radar John Wise MBE	23/5
Airseeker, The: New RAF intelligence aircraft arrives	39/49
American-British Laboratory, The OSRD History ed C.G. Suits	79/53
American Perspective, The -1: High Altitude Bombing over Land Henry Guerlag	
American Perspective, The -2: K-Band 1-centimetre R&D Henry Guerlac	53/114
American Perspective, The -3: BBRL & Operational Experience Henry Guerlac	53/130
AMES 1 Chain Home: Photographic Record of Ground Radar– <i>Air Pub 2276B</i>	51/7x
- · · · · · · · · · · · · · · · · · · ·	
AMES 6 Mk III Light Warning <i>Air Publication 2276B</i> AMES 9 MRU <i>Air Publication 2276B</i>	59/119 59/125
AMES 9 MRO All Fublication 2270B  AMES 12 The British Freya & Much More? Mike Dean	80/16
AMES 15 convoy vehicles and equipment <i>Air Publication 2276B</i>	58/59
AMES 26 feedback John Wise	32/43
AMES 26, Researching the <i>Mike Dean</i>	33/15
AMES 9442 Tom Hatcher, Oboe Radar Operator	76/35
Ambush H.M. Submarine	3/21
Analogue V-Bomber Synthetic Trainer Relic Looking for a New Home:	4/21
Answer to Christmas Puzzle "I saw three ships come sailing in"	30/4
Answering a Quiz <i>David Fordham</i>	57/30
Answers – Al 17 Manufacturer; R 1619 manufacturer: US AN/APR-2 and APR-3	48/6
Answers – Al 17 Manufacturer, "Yellow Lemon" – and more!	49/5
APN-1 Radio Altimeter: Tale of Two Antennas: Brian Hawes/Dr Liz Bruton	74/72
Appeal for Information – Roderick Denman <i>John Liffen, Science Museum</i> Arado 234 jet - and its trailers <i>RAF Evidence in Camera</i>	43/11 35/26
Armistice 100	76/75
Army Surplus, 1918 Horace White/ Hughes Bolckow, via Walter Blanchard	77/111
Arnhem Visit 2013 <i>Tony Helm</i>	10/3
Arthur Bauer Museum Open Day – Report and Pictures	41/81
ASRE Equipment 1/4,	2/4, 3/3
ASRE Extension, Tantallon – G.A. Exeter	10/4
Astronomer Royal Sir Martin Ryle's Radar Days via Alison Bird	43/24
ASV: The Detection of Surface Vessels by Airborne Radar <i>Prof R.A. Smith</i> ,	07/440
R Hanbury Brown, A.J. Mould, A.G. Ward and B.A. Walker. ASV: the Schnorkel Problem TRE/ DCD Review	67/112 73/109
ASV I and II Introductory Displays <i>Mike Dean</i>	67/94
ASV II at the Science Museum <i>Prof Simon Watts</i>	69/63
ASV Mk 19A and Mk 19B radars, The, <i>Prof Simon Watts</i>	67/153
ASWE The Building of Norman Vidler 45/23, 47/8, 48/3	
ATC Radars Again! MBE	25/42
Autakym, The, Clive Kidd, HMS Collingwood Museum	62/30
'Autobombics', Identifying David Robertson	46/48
Autonomous Warrior 2018 Dstl	79/83
Autumn Symposium 2015 in Pictures <i>Dick Green</i>	28/3
Awards and Honours DEHS	2/3
Prof Hugh Griffiths Honoured	2/3 8/3
MESE Presentation 2012	4/4
——————————————————————————————————————	

UK "Crows"	14/9
BAE C130J upgrade	43/40
BAE/ Dassault collaborate on Unmanned Combat Air System	29/45
BAE Systems: Global Combat Ship – Australia/ Type 26 Frigates	73/98
Baillie Beams S/Ldr Mike Dean MBE	44/22
Baillie Beams S/Ldr Mike Dean MBE	61/70
Bainbridge-Bell, L H <i>via Prof Hugh Griffiths</i>	54/38
<del>y</del> ,	54/100
Balloons, Drifters and Inter-Ship Transceiver TR 1150 <i>Air Publication</i>	51/50
Balme, Lt Cdr David – Obituary	43/8
Bawdsey, Progress at	52/18
Bawdsey Radar Trust Awarded £1.4 Million Grant	43/7
Bawdsey Radar YouTube; units for Tatjana Joëlle van Vark's H2S/NBS rebuild	54/20
Bawdsey Research and 228 Squadron <i>via Peter Jennings</i>	45/48
Bawdsey Restoration Gains TWO Awards!	78/11
Bawdsey – the new displays	64/10
Beetle and Banquet: 1940 anti-invasion communications and plans	41/51
Beetle: the R1080 receiver revealed!	42/32
Before Exocet 10/11, 11/5	•
Before Dawn: Air Defence and Telecommunications in World War I	13/12
Before Dawn: Air Defence and Telecommunications In World War I Pt II	14/10
Beneath the Radar: Alan Roberts M.C. David Lomas via Graham Fraser	76/56
Bending the Beams: the GPO Dollis Hill Contribution <i>Professor J H Merriman</i>	51/56
Birth of Atomic Time Ray Essen 36/3,	37/40
Bletchley Park, Women at	3/24
Bletchley Park 2013 – DEHS Summer Visit; Presentation to Margaret Sale	12/3
BLUE DANUBE	1/5
Blue Danube: Radio Report	17/40
Blumlein, colleagues and crew of Halifax V9977, Alan Dower	50/5
Bofors, Kerrison, 584 and V-1 <i>Dennis Barber, Major Philip Ross, Brian Mendes</i>	41/69
Bomber Command Security Set: T1154/ R1082 Ray Coley G3IFF	74/69
BOOK REVIEWS	0.00
Battle of Heligoland Bight, The 1939	2/23
Bletchley Park War Diaries	2/23
Blue on Blue Brian Cull with Bruce Lander	8/23
The Bombing War: Europe 1939-1945 Richard Overy	17/31
Churchill's Bomb Graham Farmelo	17/30
Decoding Organisations Christopher Grey	1/16
Einstein's Mistakes Hans C. Ohanian Review Fred Starr, Newcomen Soc:	7/25
Fighter Command Losses Volume 3	4/23
Four Geniuses of the Battle of Britain, David Coles / Peter Sherrard	11/22
Greenie, The Patrick A. Moore	1/14
Imaging and Imagining the Fetus, Malcolm Nicolson & John E.E. Fleming	11/22
Lenkkorper u Zielweisungsgerate der Deutschen Luftwaffe W-D. 3 12/27	Schroer
SIGINT: Secret History of the Signals Intelligence 1914-45 Peter Matthews	17/31
Three Dimensions of John Logie Baird, The Dr Douglas Brown	1/16
Turing and his Contemporaries	2/23
The Prof, Churchill and Science at War Russell Burns	18/3
Mediterranean Air War Shores & Massimello Review S/L Mike Dean MBE	25/43
'Main' Receiver Wolfgang-D Schroer	25/44 25/44
Story of Army Radar David Wilcox	25/45
Refore I forget George Phelos	26/26

Follow My Dreams Arthur Llewelyn & Miranda Andrews	29/41
Observers and Navigators 2nd edition Jeff Jefford	29/41
Birth of Atomic Time Ray Essen	39/53
The Secret War Max Hastings	40/42
Intercept Gordon Corera	40/43
The Mediterranean Air War Vol 3 Chris Shores Review S/L Mike Dean	52/78
Radar Men: A P Rowe and John Strath in War and Peace Don Sinnott	
Review Prof Hugh Griffiths	53/67
Black Box Canberras: British Test and Trials Canberras 1951 – 1994	33/01
Dave Forster <b>Review S/Ldr Mike Dean MBE</b>	E2/60
	53/68
Churchill's Last Wartime Secret: Adrian Searle Phil Judkins	53/69
'His Own Executioner: The Life of Nigel Balchin' Malcolm Baird	62/69
'A Most Enigmatic War' James Goodchild Phil Judkins	67/84
'You're One of Us Now' (EKCO, Malmesbury) Bill Reed Phil Judkins	67/86
Fly-by-Wire Jaguar	74/95
Boozer Ernie Putley	38/27
Boozer or Not? John Kaesehagen	39/41
- Response Mike Dean	40/32
- Follow-up	41/32
Bowman Maintenance Contract	14/8
Brakemine Wikipedia	46/27
Brakemine Story, The WO 2 N K Brown, REME	46/28
Bram Grisnigt, Dutch agent <i>via Robert Soek</i>	76/7
Bram and Ann Grisnigt <i>Robert Soek</i>	80/2
Brass Bedsteads and Dog Biscuits Clive Kidd, HMS Collingwood	45/30
Brett-Knowles, Richard	33/42
	66/124
British Army Notes on Jamming and Anti-Jamming	
British Army orders more Israeli Radios Rupert Pengelly	59/93
British Army Radio and Radar on display, 1967 via Bill Penley, CB, CBE	34/28
British Army RDF Committee	54/62
,	66/131
British Knowledge of German Military Wireless 1917 - I	25/5
British Knowledge of German Military Wireless 1917 - II	26/5
British Searchlight Radar and Jamming	66/119
British Telecomms History WW1 Kapil Subramanian/ Graeme Gooday 62/115,	63/150
Brown, A Story of John	8/20
Brown's Relays; amplify without valves!	18/11
Bruneval Raid 1942 Charles Cox MM RAF with thanks to Mike Dean	68/21
Bruton, Dr Liz, appointed Jodrell Bank Heritage Officer	44/7
	6/3, 7/2
Burns Lecturer 2014: Professor Hugh Griffiths 18/4, 19/3, 20/3	
Burns Lecture 2015 31/3, 32/	
Burns Lecture, 2018 Prof Simon Watts	70/71
Burns Lecture Day 2019, Jonathan Aylen	80/3
Buying Books	2/23
	_,_0
Can You Help? 1 Ardente Radar Group; 2 Possible Hydrophones Clive Kidd	76/5
Can You Help? Naval Indicator Unit <i>Vin Robinson</i>	77/5
Can You Help? Naval Ind. Unit <i>Vin Robinson Jerry Proc/ Clive Kidd/ Peter Mills</i>	78/66
Can you Help please? WW2 undulator and amplifier <i>Clive Kidd</i>	68/16
Can You Help please – UK Forward Looking Radar <i>Gordon Slater</i>	80/15
Canadian Marconi trans/receiver; video oscillator - <i>Ian Brown</i>	5/4
	3/4 3/19
Canadian Radar on Display	
Canadian Radar GL3C	8/18

Canadian GL3C vans Brian Mendes	32/5
Canadian GL3C to AN/TPS 1 Brian Mendes	34/28
Carriers and AEW	7/23
<i>'Castles in the Sky'</i> , Watson Watt TV programme 4 September 2014 26/3, 27	
Catalina aerial array – and then some!	10/24
Celebrating Lives of Achievement: Dr Bill Penley Jonathan Penley	57/15
Celebrating Lives of Achievement: Colin Latham Interview John Bryant	57/19
Centimetre Al, The Development of <i>Dr W S Burcham</i>	50/34
Chain Home: What did Chain Home cost?	3/12
Chain Home Aerials: A Tangled Web	41/15
Chain Home Aerials: letter from Fred Starr, Newcomen Society	42/5
Chain Home Aerial Models John Liffen, Science Museum	43/39
Chain Home Radar: A Personal Reminiscence M B Scanlan	70/38
Chain Home Transmitters, The <i>Dr J M Dodds OBE and J H Ludlow</i>	74/101
Chain Home Transmitters: The Shop-floor View <i>Jim Brown</i>	74/116
Chain Home - rotating receiver aerial towers? Nordlohnel Kaesehagen/ Dean	58/26
Channel Dash, The – Missed Opportunities? S/Ldr Mike Dean MBE	48/10
Channel Dash - Letter to the Editor Michael Ellis	79/7
Channel Islands Communications and the War W R Tyson	34/7
Chasing Japanese Type A Radar S/Ldr Mike Dean MBE	70/35
CHL, GCI and Mobile Base (MB) Ground Radar Transmitters R V Whelpton	74/142
Civilian Technical Corps, The (CTC) Ian Brown	45/18
Cockburn, Sir Robert - Answers! James Cockburn	72/5
Cockburn, Sir Robert – Visit to Schleswig-Holstein 100 Group Report	73/6
Cockcroft, John – The Quiet Man, At War <i>Dr Phil Judkins</i>	27/9
Cold War Aerials – Cobra Mist Neil Bennett	41/73
Cold War Aerials – Cobra Mist <i>Brian Austen</i>	42/50
Cold War Dish aerials – Malvern and China S/Ldr. Mike Dean MBE	41/75
Cold War Aerials – Malvern's Dish <i>Hugh Williams</i>	42/51
Cold War Radar	7/3
Cold War Salvage Operation Tony Helm	13/4
Collisions with Balloon Cables Peter Garwood	51/18
Consol John E Clegg	55/36
Contract for new Royal Navy Ships	21/42
Cossor: Half a Century of Progress Cossor Ltd	56/26
Cooke-Yarborough, Ted, Monica and the Stirling engine	8/4
Cougar Naval Exercise	3/22
Crashed before Take-off: the Anglo-French AFVG Andrew James/Phil Judkins	64/84
Cryptos Essay Prize New Armouries and New Enemies: Dr Charlie Hall	57/6
CV Acronym, That John Kaesehagen	51/7
CV Acronym, That Clive Kidd, HMS Collingwood	52/19
CV Valve Committee, The UK's	49/64
CV Valves Again, Those! Clive Kidd HMS Collingwood	56/59
CV Valves: Letter to the Editor: John Kaesehagen	57/4
D Day Signale Planning	80/106
D-Day Signals Planning  D. Day Communications: Signal Venture: Prigodier I Harris CRE	80/100
D-Day Communications: Signal Venture: <i>Brigadier J Harris CBE</i> Dark Arts, Light Aircraft – Autogyros in the Battle of Britain	1/11
Dark Haven: Bringing Lost Aircraft Home S/Ldr. Mike Dean MBE	41/50
'Darky' System, The, Sandra, Granite and Occult - Derek Wood, Phil Racher	42/34
Dassault Aviation – a Postscript	18/11
•	8, 44/40
Daventry 'Experiment' The – Original Material <i>Prof. Brian Austin</i>	41/40
Daventry 'Experiment' The – Original Material <i>Prof. Brian Austin</i> Daventry 'Experiment' The – Further Questions <i>James Halley MBE</i>	42/25
'DC to Light'; Silhouette. 1930s British night air defence	2/13
Do to Light, officiality and the street of t	2/13

Decca Navigation Wireless World March 1946	56/19
Decca Navigator Walter Blanchard PPRIN	41/70
Decca Navigator Stations M G Scroggie Wireless World August 1946	56/22
Defence Electronics – Antarctica Dr Phil Judkins	56/13
Defending the Garden of England David Robertson	64/13
	31, 24/36
DEHS Accounts 2016 with many thanks to Dick Green 56/64, 57/ DEHS Accounts 2017 67/87, 68/	•
DEHS Accounts 2017 67/87, 68/ DEHS 2017 Accounts; 2018 AGM Agenda	70/65
DEHS 2018 Accounts: 2019 AGM Agenda 2 May, STEAM, Swindon	80/4
DENCO, Denis Heightman and the RAF <i>via Bill Liles</i>	44/53
Desperately Seeking Felkin	17/29
Desperately Seeking Felkin - Richard Bateson's information	22/7
Development of Centimetre Al The <i>Dr W S Burcham</i>	50/34
Development of the E.1189 Eight-Cavity Magnetron at GEC <i>Emilio Ciardiello</i>	80/8
Did Bomber Harris Know? Aircraft Radio UK, 1938 D Hay Surgonier	60/28
Dippy, R J, 1945 Interview Scott and Jay	38/4
Dongles! J C 'Jacey' Wise MBE	30/19
Doppler Scanning Guidance System C W Earp, F G Overbury, P Southcott/ S7	
Dorte, Group Captain, Radar Association	4/4
DSEi 2015 J C 'Jacey' Wise MBE	40/41
Dutch Flying Car at Farnborough The via Robert Soek	74/89
Dynatron Radio Ltd War Production via Tony Waller, Mike Dean	34/14
Family wis O/L du Miles Dans MDF	FF (0F
Eagle via S/Ldr Mike Dean MBE	55/25
'Eagle' AN/APQ-7; images from the manual	53/112 55/22
'Eagle' AN/APQ-7 Scanner <i>via Aryeh Ben-Ami</i> Early Centimetric Ground Radars – A Personal Reminiscence <i>M B Scanlan</i>	70/97
•	
Early GEE airborne equipment: Indicator 60 progress <i>Tony Waller</i>	68/141
Early German & American ASV radar Tx tech Hohentwiel & ASB Hans H Jucke	
Early Meteor Radio Astronomy at Jodrell Bank and Canterbury Grahame Fras	
Early US Airborne Radio Aeronautics Magazine <i>via Martin Bolton</i>	65/13
Echo Boxes CIC Magazine February 1945	54/54
ECM or Y Intercept – I: The Post Mortem Exercise, and After	16/7
ECM or Y Intercept – II: Martini, Kammhuber and Schmid	17/9
Eighth Dwarf, The: HMS Dwarf and the German wireless station, Dyala, 1914	41/12
Ekco 'Cloud and Clonk' E190 Radar Jeff Jefford	74/80
Ekco Weather Radar ARI 23083 George Chatwin/Wings Museum	39/22
Electronics Restoration Trust	15/3
	37/4, 40/3
- GEE Mk I progress statement <i>Tony Waller</i> Elektra/ Sonne	38/3 7/3
EMI Image Converter Manufacturing <i>Virtual Valve Museum</i>	76/62
English Heritage Lists WW1 Intercept Station via Jonathan Aylen	62/16
Epilogue	3/3
Errata: eDEN 60 pp108/9 with thanks to Peter Jennings	61/5
EUREKA Mk II	49/12
Events of February 1942: Gubbins and Bruneval <i>Mike Dean</i>	78/54
Evidence in Camera, RAF targets: Eindhoven, Berlin, Beaumesnil, Nauen	35/40
EW Specialist Next Chief of UK Defence Staff: ACM Sir Stu Peach	44/9
Examining the Early Days of Long Range ASV in Coastal Command Mike Dea	n 67/98
Falklands Sketchbook Lee Sullivan/ BAe Dynamics	69/94

Ferranti Silverknowes Laboratories	33/34
Ferrets: A Brief Introduction to Ferrets in eDEN Mike Dean	74/6
Ferrets I: Work of the Ferrets RADAR 04 via Mike Dean	74/8
Ferrets: 1: The search for Jap Radar. RADAR 04 via Mike Dean MBE	75/5
Ferrets: 2: RAF Ferret Operations in South-East Asia <i>Mike Dean MBE</i>	75/9
Ferrets: 3: The Halifax aircraft Ferret Installations of 1341 Flight Mike Dean	75/21
FH4 D/F set – Appeal for Help 'Jacey' Wise	51/68
FH4 H/F D/F, TBS, Wireless Set 27/67 Appeals answered	52/5
FH4 Huff Duff for Xmas! 'Jacey' Wise, Karel Hagemans, Arthur Bauer, Mike	Dean 53/10
FH4 Outfit - A Short History John 'Jacey' Wise	53/11
FH4 Outfit: HF Direction Finding in the Royal Navy J C 'Jacey' Wise	41/63
Fifty Years of the Cavity Magnetron 1940-1990 Profs W Burcham & R Shear	
Filberts Anyone?	26/24
Film review: 'The Imitation Game' – 'Castles in the Air' on Steroids?	29/3
First Drone? Mike Baker, Steve Mills and Dr Dave Sloggett	53/9
First Navy Wildcat Makes Maiden Flight	7/24
First Radar Death, The: Hunter Gray	44/18
First Step, The? GPO Report 223 Interference from Aeroplanes	32/32 50/104
Fishpond H G Hinckley  Flying Magnet The (DWI Wellingtons) (Parada' via Barry Wilbroham	39/46
Flying Magnet, The (DWI Wellingtons) 'Parade' via Barry Wilbraham FM CW Radar John 'Jacey' Wise MBE	
Focke-Wolf Condor at War <i>J Richard Smith</i>	14/9, 20/19 74/58
Forman, Jan: One of Baird's Bright Boys <i>Malcolm Baird</i>	51/14
Forthcoming Book	3/20
Forthcoming Vikings	4/22
French Submarine Saphir and USS Theodore Roosevelt	33/43
Frequency Hopping with George and Hedy <i>Dr Mike Diprose</i>	63/11
Friends of the National Archives <i>Dr Tony Wakeford</i>	44/15
Front Line F/Lt Vicky Neighbour	11/16
Fullerphone, The Major A C Fuller	28/7
Funkabwehr, The	48/55
Futures 1: After We're Gone via John Kaesehagen	66/24
Futures 2: The Hewlett Packard Archive via John Kaesehagen	66/27
Futures 3: The Very Long Term – a Conference? via Mike Diprose	66/31
GEC's 'War Record' Brochure- Christmas Quiz 2016	53/20
GEC 25cm Al radar. Whatever happened to the?	54/32
GEC Intercept Receiver Flights thanks to Chris Cooper	54/28
GEE and GEE-H: Marks and Dates	43/29
GEE and the Electronics Restoration Trust: Name the Bob Dippy Team!	16/5
GEE Answers – and Puzzles!	17/3
GEE Mk I, Progress with <i>Tony Waller and Richard Hankins, ERT</i>	53/8
GEE Track Siting Guide Cossor via Mike Dean	69/27
GEE, TRE and Centimetric Research: the Lovell letter	53/84
GEE – Did Detonators Work?	43/30, 44/35
GEE – Yet More Puzzles!	18/6
'George' for OBOE <i>Mike Dean</i>	60/131
German Army "Speech-On-Light" Signalling Apparatus Gifford Hull/ Kidd	74/64
German Army Wireless Equipment Walter Farrar B Sc	68/35
German Death Ray - Fact or Fiction? Mike Dean	72/8
German Drone Explosive Motor Boats – 1917! Jonathan Ruffle & Mike Dear	
German Radar Chain Opposite Chain Home Yves Blanchard	69/46
German Weather Forecasting for the Channel Dash <i>Dr Walther Stöbe</i>	64/37

German Y Service, The: the Bletchley Park British assessment in 1944 GL3C Radar Power Tubes Brian Mendes Godlingstone Hill: Foundation of a Myth? GPO Engineering Dept's contribution to RAF Radar development RG Marting Graf Spee: Salvaged from the Trap of Montevideo D J B Smith/ Michael Ellist Graf Spee's radar Letter to the Editor Michael Ellist Graf Zeppelin ELINT flight; - Roger Voles Granny, Uncle and Aunt Richard Barratt Griffiths, Professor Hugh honoured with OBE Guided Missile, The First? 2/Lt J R C Petersen, REME Guided Missile Telemetry Systems Kenneth W Gatland FRAS Guided Missile Telemetry Systems John Kaesehagen Guided Weapon Work at TRE/RRE, Memories of Dr W H Penley CB CBE	
H2S and ASV American B J O'Kane PhD, B Eng, AMIEE. H2S and ASV, Introducing: Air Publication 1093D H2S and the Navigator F/Lt E L Killip AFC H2S, Early: The American Experience Dr Mike Diprose: US publications on H2S Historical Note on A C B Lovell PhD H2S in the Canberra – Appeal for Input Tony Wilson/Gordon Slater, BAE H2S Marks The "Rough Guide" to Air Publication 1093C H2S Mks I-Ill: Fundamentals of H2S Dr F C Thompson H2S Mks IV – VI: The New H2S's J Smith B Sc H2S Mks VII – VIII: Radar Sighted Navigation & Bombing Devices G Bradfiel H2S Mk 9 in Canberra? H2S Mk 9/NBS restoration; 'Miniature H2S' Interview Tatjana Joelle van Var H2S Trainer Geoff Dummer H2S Trainer: The Design of Radar Trainers Geoffrey W A Dummer H3Ifax V9977, The Crash of (Prototype H2S Radar) W H Sleigh 'Hand and Thunderbolt' Badge, The Jeff Jefford 'Hand and Lightning Bolt' The and Sterling Ken Brooks Harris and Radar Aids Sir Arthur Travers Harris Hawkcraig Experiments, The Brian Head Hill 880 USAAF RADAR Magazine via Mike Dean Histelcon 2019 Professor Tony Davies History in the Writing: Sir Robert Cockburn History of R.F.C. Wireless from Outbreak of WW1 Majors Orme and Prince History of Wireless Communication, A W A S Butement Hodgson, Jacky, Retirement of, Head of Sheffield Uni Special Collections How Japan Lost a Scientific War S Watanabe How Many Types of Window? How Syria is becoming a Testbed for EW Weapons Prof David Stupples Hulsmeyer Plaque at Cologne/Koln via Prof. Hugh Griffiths Hunstanton Coast Defence /Chain Home Low (CHL)	48/23 51/9 50/79 50/82 50/138 Id 50/141 50/170
ICUE 2015 IFF Development, Key Dates in Early BRP (=Parry?) IFF and Radar Beacons Air Publication AP1093D Industry's Contribution to Radar Sir Stafford Cripps, 1945 via Clive Kidd Infra-Red Image-Converter Tube TH Pratt, ARL Teddington Intercept	28/33, 30/37 72/96 72/100 74/75 75/41 33/4

Invading with radar via S/Ldr Mike Dean MBE Intercept, D/F and the Air Defence of Britain 1914-18 Intercept, Cruise Missiles, Rockets and Superguns – First Time Round! Interwar Airborne Transmitters and Receivers - Marconi Interwar Airborne Transmitters and Receivers – STC Interwar Project - Help Wanted! Wavemeter W 63. 'Invisible' Illumination: A U-Boat and the Manchester Ship Canal Mike Dean Iranian Radars J C 'Jacey' Wise ITT and German WW2 Navigation CIOS ITT Paris, Visit to, 16.1.1940 L H Bainbridge Bell via Lt Cdr Clive Kidd	31/16 17/23 19/4 40/10 41/34 63/119 78/18 40/40 39/25 80/87
Jagdschloss-Kreuzeck System Discovery Arthur O Bauer Japanese Wartime Military Electronic and Communications BIOS Report 623 Japanese World War 2 Electronics BIOS Report Jitter & Stagger John 'Jacey' Wise MBE "Jogging along to Salisbury" David Robertson and Phil Racher 'Just Want the Facts, Ma'am' – Tracing Naval Relatives 'Just Want the Facts, Ma'am' – Tracing Army Relatives	3/6, 24/23 67/70 47/37 20/18 60/6 1/6 2/8
Korean War – Special Event Station	13/25
	42/40 39/51 19, 12/22 35/3, 37/3 32/9 63/5 64/19 56/92 be 70/6 43/40 62/65 53/96 77/31 47/23
Malvern Radar and Technology History Society MRATHS  MAGNET: Magazine Article Review  5/25, 6/21, 7/23, 20/ Magwatch: RB on AN/ARC-3 and Geoff Arnold obituary; Flypast Cold War isst Magnetophon, The German R A Power Magnetron Debate: Waddell/ Brown, Tube Collectors Association Magslips, Selsyns and Servos Brig. Douch - Further Thoughts Brian Mendes Making the Connection S/Ldr Mike Dean MBE MANDREL Mk II Jammer Air Publication Maralinga Marconator, The J H Moon Marconi Interwar Infra-red Communication System Marconi Review Marconi's Beam Wireless Station at Dorchester Paul Hawkins  43/ Marconi's 'E-R': H N C Ellis-Robinson: Obituary Marine Loudspeaking Gear: the Ardente Loudhailer P Hickson Master of Scientists Prof Philip Dee Prof Samuel Curran The Mechanical Design of German Army Wireless Components D Gifford Hull Merryweather Telescopic Towers Mike Dean	ue 47/50 55/40 35/14 37/19 39/22 52/24 51/72 36/12 57/38 47/34 13, 44/27 44/49 58/39 31/14

MESE Presentation 2012 Mills, John Robert 1916 – 1988 Nick and Philip Mills Mirrors Dr Phil Judkins and Arthur Bauer/ Klatt-Ostro-Josephine project Missing Blumlein Archive Roger Voles MLS: Back to the Future? Brian Evans Mobile RDF Mast Development S/Ldr. Mike Dean MBE Mobile RDF MB transmitter manufacture photo S/Ldr. Mike Dean MBE MOD order for F-35B Lightning II MRP-4 Miniature Radar Detector Tony Helm Mysterious Radar Death, A: Samson or Samsen - or both? Mystery Radio at the Science Museum Gregory N Howard	4/4 51/11 65/56 22/19 62/110 41/42 42/31 28/31 14/4 44/21 68/6
Nachtfee Seminar at Duivendrecht 2017 Arthur Bauer Navajo Code Talkers, The Gerald Knowles Naval Radio: Communications Equipment of British Warships G M Bennett NBS/H2S 9A Rapid Processing Unit Appeal for Information: New Year Fireworks: Flash Bang S/Ldr Mike Dean MBE Newsam, Bernard: Internet Public'n of Diaries: Can you help? Ben Newsam Newsam Bernard: Internet Public'n of Diaries: Can you help? Ben Newsam Nixie Indicator, The Jens Boos via John Kaesehagen Norfolk Island Effect, The, and the Whangaroa Report Grahame Fraser Norwegian Frigate Disaster Norwegian Accident Investigation & CNN	65/5 70/55 58/35 9/24 30/7 77/80 78/84 74/81 63/54 79/77
OBOE: A Precision Ground-Controlled Blind-Bombing System <i>F E Jones</i> OBOE and the Radar Gun Barrel <i>S/Ldr Mike Dean MBE</i> OBOE, 'George' for Mike Dean OBOE: The USAAF View <i>USAAF RADAR Magazine via Mike Dean</i> Oboe's Missing Man: George Gavin Samson, Oboe scientist, 1907 – 41; Part I Oboe's Missing Man: George 'Gav' Samson; Part 2 <i>Mike Dean/Grahame Fraser</i> Oboe's Missing Man: George 'Gav' Samson; Part 3 <i>Mike Dean/Grahame Fraser</i> Oboe's Missing Man: George 'Gav' Samson; Part 3 <i>Mike Dean/Grahame Fraser</i> OBITUARIES	60/102 47/24 60/131 60/129 60/140 61/57 62/62 63/51
Lennard Barber William John Butcher 1935 - 2012 Edmund (Ted) Cooke-Yarborough 1918 - 2013 Professor Sir Bernard Lovell Don Tomlin Dr. Graham Winbolt 1933 - 2013 Major-General Eric Younson John Beattie 1928 – 2014 Sir Arthur 'Bill' Bonsall W/Cdr John Stubbington G/Capt. Eugene 'Tubby' Vielle Roger Voles Lt Cmdr. William 'Bill' Legg, R.N. Lt Cmdr. Clive Kidd Charles 'Bill' Cox: Philip Mayne Woodward 1919 – 2018 Talbot Green	10/23 6/2 7/2 2/2 18/5 9/3 14/3 25/3 30/6 36/27 61/3 68/27 70/121 74/5
Old and New Valves 'Science at War' J.G. Crowther and R Whiddington FRS Once Upon A Time: A Peep into the Past 1949 Live Wire via Lt Cmdr. Clive Kidd Operation Salaam - from notes by Arthur O. Bauer Operational Research 'Science at War' J.G. Crowther and R Whiddington FRS	69/35

	70/82 4, 2/4, 3/3
Origins and Development of Radar: The French Contribution Yves Blanchard Orford Ness Alan Pennington and Dave Kenny via Walter Blanchard PPRIN Orfordness L Spray/ AWRE News	67/42 55/19 54/47
• •	4, 6/5, 7/5
OTH, China and the South China Seas John 'Jacey' Wise	64/74
· · · · · · · · · · · · · · · · · · ·	18, 19/17
Palmer, L.S. and the Training Aids Development Unit (1942-5) Martin Bolton	74/30
Park before the Park, The: Bletchley, World War 1 John Gallehawk	41/17
Passive Radar J C 'Jacey' Wise	37/39
Peep into the Future, A: 2017 Series on Ground Electronics Vehicles	54/20
Performance Spec for Receivers to Minimise Jamming Effects S Jefferson	66/111
Philip Mayne Woodward (1919 – 2018)	70/121
Perdio Radio: Some Recollections of its Early Days Rod Burman	63/75
Piccolo 32-tone Telegraph System, The D. Bayley, C.Eng., & J. D. Ralphs, B.S.	
Pierre David's 'Electromagnetic Barrier' Yves Blanchard	68/61
Please Help – Hawker Siddeley Review; Al 17; R 1619	47/6
- Al 17 Manufacturer; R 1619 manufacturer: US AN/APR-2, APR-3	
– Al 17 Manufacturer, "Yellow Lemon" – and more!	49/5
Polish AP5 'Pipsztock' Post Office Cable Communications for the Invasion Armies <i>J Rhodes</i>	33/41 35/7
Post Office Equipment for Radar <i>P A Marchant, K M Heron</i>	34/10
Post Office Fighter Command Communications A M Hanna	36/15
Post Office: The Battle of the Atlantic Aston, Bland, Perryman, Worthington	36/23
Post Office: The Battle of the Atlantic Asion, Bland, Ferryman, Worthington	36/19
Post-war AlO and Command Systems in the Royal Navy <i>Peter Marland</i>	59/52
Postwar Fire Control in the Royal Navy Peter Marland	63/88
Postwar Weapons in the Royal Navy <i>Peter Marland</i> .	66/51
Power and the Glory, The <i>Phil Judkins</i>	53/78
Powering Electronics 1 Luftwaffe 1940s 2 British Army 1960s	35/28
Precision Radar W. Butement, B. Newsam and A. Oxford	77/83
Preserving Defence Electronics Pete Harry, Bloodhound Preservation Gp	78/12
Preserving the Aviation Heritage Ironbridge 1989	76/11
Professor Arne Beurling, Sturgeon and Trasher Drs P Waddell and D Brown	15/19
Project LAST: Sea King AEW Michael Yeates	57/47
QinetiQ Open Day 2015 Tony Waller	37/6
R1100 Ben Nock Military Wireless Museum, Kidderminster	49/61
R1147 and a 'B' Mystery! <i>via Andy Young</i>	54/21
R1147: CW Radio Aids to Homing and BA of Naval Aircraft Quinn & Holland	55/55
R1294/ AB2 Air Publication	75/103
R1359/ ABR 3 Air Publication	75/122
R1619 Air Publication Chris Cooper/Richard Hankins	75/141
Radar Association 2/25	5, 3/3, 4/4
Radial Time Bases: How they were developed for radar <i>Dummer &amp; Franklin</i>	77/45
Radio Aids to Navigation Sir Edward Fennessy/ RIN	76/24
Radio and Space Research at Slough 1920-81 Gardiner, Lane, Rishbeth	73/48
Radar and the Battle of the River Plate Dr lan K Walker	30/20
Radar Battle of the Bay of Biscay, The Dr Bernard Lovell PhD	50/27
Radar Chatter John 'Jacey' Wise MBE	20/17
Radar ECCM in World War II Stephen L Johnston	66/100
Radar Echoes from Birds: AORG Report 257, 1945 D. Lack AORG	75/35

Radar in World War 2: the South African contribution <i>B A Austin</i>	33/21
Radar Navigation R.A. Smith	72/39
Radar News John 'Jacey' Wise	79/75
Radar Nomenclature John 'Jacey' Wise MBE	15/7
Radar Operator on an Ack-Ack Site Rowena Argent	29/39
Radar, the Army and D-Day <i>Prof J W S Pringle</i>	73/37
Radio Communication via the Moon J V Evans	63/66
Radio Finger-printing and TINA Jerry Proc via Walter Blanchard	63/39
Radio Progress in the 1920s Keith Thrower	63/120 64/117
Radio Progress in the 1930s Keith Thrower	78/68
Radio War, The Air Vice Marshal E B Addison	70/00 71/87
Radio War, The Sir Robert Cockburn	71/106
Radio War, Addendum to The Sir Robert Cockburn  RAF 100 Dick Green	27/27, 28/34
RAF Danby Beacon Chain Home Ray Barker/Mike Dean/ Freddie Smith	75/74
· · · · · · · · · · · · · · · · · · ·	
RAF Ground Electronics Vehicles – III: RVT 130/131	58/46
RAF Ground Electronics Vehicles – IV: Introduction	59/118
RAF Ground Radio and Radar Vehicles <i>Air Publication 2276J</i>	55/89
RAF Ground Radio and Radar Vehicles – II Air Publication 2276J	56/66
RAF Intercept Receivers	75/102
RAF Notes on Air Operating for Signals Aircrew 1944 AM Pamphlet 180	75/60
RAF Radio Mechanic Training Colin Latham	64/30
RAF Sopley: A Brief History 1941 – 45 Pat Sparkes	71/41
RAF Worth Matravers 1951: GEE Monitoring <i>Ellis Goodyear</i>	72/6
Rainbow Codes Chris Gibson	47/19
Ravenscar Illustrated <i>Brian Mulvana</i>	47/26
Ravenscar Radars: Bent Rigg Radar Station, Ravenscar, Stainton Dale,	44/56
North Yorkshire Shaun Richardson and Ed Dennison	44/04
Ravenscar Radars <i>Brian Mulvana</i>	44/61
Ravenscar Revisited Mike Dean	38/22
RDF 1.5: letter from Fred Starr, Newcomen Society	43/10
RDF (Radar) Bird Watchers, The First Mike Dean MBE	75/40
Recent Developments: ATC: Syria: Armenia John 'Jacey' Wise	44/47 41/76
Recent Events: Iran, Ukraine <i>J C 'Jacey' Wise</i> Recollections of GEE siting trials <i>Eric Amies via Mike Dean</i>	69/15
Recorder with Playback, Wire, No 1 The British Army War Office 1947	55/45
Red Cabbage	2/4
REME and Coast Artillery Radar <i>Capt. D M Pearson</i>	70/115
Restoring Al Mk IV, VIII, X and ASV II Norman Groom	70/73
Restoration of a Radar AA No3 Mk II, The www.anti-aircraft.co.uk	29/34
Reeves, Alec and the Birth of Blind Bombing <i>David Robertson</i>	42/6
Revolution in Timekeeping, A <i>L Essen</i>	71/74
R.M.1 Mobile Radar Receiver, Bawdsey, 1937 John Liffen, Science Museum	
RSA Soviet Army Radio Display <i>Tony Helm</i>	13/3
RSS, PO Box 25	48/50
Robson, Dorothy	33/13
Rocket Detection CH Stations E & S Coasts 1943/1945 Harvey Sterling	44/41
Romantic Book Review: Mills & Boon and Hydrophones! S/Ldr Mike Dean I	<i>MBE</i> 28/28
Romney Marshes: from the defensive to the offensive Mike Dean	77/52
Roots of ADA Peter Marland	60/65
Rowe, A P, WW1 Service via Prof Hugh Griffiths	54/37
Royal Naval Radio Warfare 1900 – 1945 Part 1 John 'Jacey' Wise	58/5
Royal Naval Radio Warfare 1900 – 1945 Part 2 John 'Jacey' Wise	59/38
Royal Naval Radio Warfare 1900 – 1945 Part 3 John 'Jacey' Wise	60/48

Royal Naval Radio Warfare 1900 – 1945 Part 4 John 'Jacey' Wise Royal Naval Radio Warfare 1900 – 1945 Part 5 John 'Jacey' Wise Royal Naval Radio Warfare 1900 – 1945 Part 6 John 'Jacey' Wise Royal Naval Radio Warfare 1900 – 1945 Part 7: D/F Systems John Wise Royal Naval Radio Warfare 1900 – 1945 Part 8: John Wise Royal Naval Radio Warfare 1900 – 1945 Part 9: John Wise Royal Navy Electronic Warfare 1940 – 1990 John 'Jacey' Wise Royal Navy Mobile Crystal Grinding & Servicing Unit Clive Kidd, Royal Radar Establishment, The J E N Hooper	61/45 62/42 63/19 64/53 65/40 66/32 68/47 52/22 71/65
Royal Signals: Signals Experimental Group: Help Please Russian Infiltration into GCI, Early? <i>David Robertson</i>	6/3 72/70
Safety in the Air: A User's View of Radio Aids 1947 <i>John McGillivray</i> Sarafand, An Invitation to <i>via Aryeh Ben-Ami</i> Schnorkel <i>compiled by Mike Dean</i>	57/34 54/53 73/103
Schnorkel & Stealth: German Tech & Electronic Development <i>Axel Niestlé</i>	73/123
Schnorkel & Stealth In Context: The TRE Perspective <i>Prof Sir B Lovell</i>	73/139
Schornsteinfeger (Chimney Sweep) Mike Dean MBE	73/111
Scorpion MRAV: Nexter, Renault, Thales contract	30/36
Scott-Taggart, John: 55 Years of Radio <i>John Scott-Taggart</i>	70/14
Scott-Taggart, John: Evacuating Radar from France, May, 1940	70/30
Search and Research: Cambridge Radio Astronomy <i>Prof Sir Martin Ryle</i>	45/32
Secret Communications Exhibition, Diemen, Reports	17/33,18/22
Secret Communications Report Dr Mike Diprose	54/5
Secret Communications January 2017: photo-report	56/6
Secret Man, The, Stanley Hey	65/78
Seehund Infra-red Telescope for Naval Signalling via Mike Dean	54/39
Seeking Ekco, and the Way Back Machine	22/9, 23/20
Seven Dwarfs, The: RAF E-3 Sentry AEW/ AWACS	41/9
SHF Intercept Targets J C 'Jacey' Wise MBE	29/28
Short-Wave Cathode-Ray Direction-Finding Receiver RRS Staff	59/29
Side-Channel Attacks; Protecting Defence Electronics Michael Mehlberg	66/77
Silloth Trainer - the first description Martin Bolton/Gordon Iles	39/3
Snow White: RAF Decimetric Multi-Channel Communications, 1947	41/4
Some Memories of a Radio / RDF Mech in WW2 LAC Gallimore	68/29
Some Thoughts on Combs John Wise MBE	23/3
South African Royal Trains' Wireless A.E. Chester / Clive Kidd	74/18
Soviet Army Manpack Display – <i>Tony Helm</i>	12/6
Space and the TPS-77? Shetland Times	74/90
Speaking of Antennas: the radars of USS Yorktown: S/Ldr Mike Dean MBE	
Specimen AORG Report on Jamming Stanley Hey	65/96
Spectrum Activity John Wise MBE Spencer, Harold Cyril (Spenny) Les Hayward	23/4 51/10
Spencer, Harold Cyril (Spenny) <i>Brian Austin re Les Hayward in eDEN 51</i>	52/21
'Spy Ring', A Unique, and an Unusual Naturalisation in 1923. <i>Toby Ewin</i>	44/10
STC, the Allied Armies, and – Wire? Douglas Reekie	61/86
STC: The Army Visit	54/51
STC Valve Division and UK Naval Radar in WW2 Douglas C Rogers	31/30
	1/3, 2/4, 3/3
Strumble Head and the '3,6,9' Experiments <i>Kevin Niblett and Mike Dean</i> Strumble Head: Fitting the Jigsaw Together <i>M Dean, R Moore, N Godsell</i>	72/10 73/63

Strumble Head: Fitting the Jigsaw Together: 10 Set REME <i>Eric Ramm</i> Submarines, Schnorkels and Stealth Summer Puzzle! C E Prince's Receiver - Find the Fault! Summer Puzzle Solution! C E Prince's Receiver - Find the Fault.	74/35 73/102 25/4 26/4
Summer Visit 2015 31/3, 32	2/3, 33/3, 35/4
Sunday Soviet, TRE, with names put to faces!	8/25
Surprise: Decca Navigator <i>via Clive Kidd</i>	69/6
•	69/8
Surprise: Klein Heidelberg Photo via Arthur O Bauer	
Surprise: Strumble Head - Centimetric Communications Trials Kevin Nible	
Survey of Japanese Radar Roger I Wilkinson	68/117
Swiss Bloodhound Museum Jonathan Aylen	2/5
Switchboard Identification Type B	9/25
T1199 'Squeaker' <i>Air Publication</i> TAILPIECE	51/23
Mitsubishi J8M1 <i>Shusui</i>	2/26
Nakajima G8N1 <i>Rita</i>	3/25
Professor Ian Donald	4/24, 7/29
Manufacturing a 9 Set adaptor	5/27
Tinsel/ Rope/ Window	6/22, 7/27
TRE Sunday Soviet, with names put to faces!	8/25
Switchboard Identification Type B	9/25
Catalina aerial array – and then some!	10/24
Schräge Musik – World War I!	11/24
Loot from Hamburg – and a comment on Allied Bombing.	12/28
Marine Hypsometer	13/27
HM Trawler Viola III	14/18
'Chinese Whispers', Worth Matravers and R J Dippy	15/29
The Baird Text-to-TV Converter	16/24
WW1 Pigeon Photo-reconnaissance	17/40
Ground-handling of pigeons	18/27
Captured German War Pigeons	19/30
War Art - Crows, and more!	20/25
War Art – Penkala	21/45
'Tubby' Vielle <i>'Almost a Boffin'</i>	22/33
Tuba AN/MPQ-1	23/34
Submarines and Cavalry	24/40
Head-mounted Radar!	25/47
Transatlantic glider tow!	26/31
eDEN Fashion Pages - Sound locators back in fashion!	27/29
Bugler at the Gate – Antoon Verschoot	28/36
Christmas Puzzle "I saw three ships come sailing in"	29/49
Fleet Air Arm flies the Super Étendard from the <i>Charles de Gaulle</i>	30/39
MEW	31/40
Lock up your diathermy machines	32/48, 33/46
Sheerophone	33/46
Poetry Corner	34/46
Try your hand at photo-interpretation	35/51, 36/33
'DWI' Ju-52s	36/33
The Wife of Terentius Nero, and an unknown WAAF	37/44
Profumo and the Drone	38/40
Japanese WW2 'death ray' magnetron	39/59
'Dreadnought 2050' Holographic Operations Room	40/47
Danish 'Stay behind' set – appeal for information	41/86

4 LOD/CAD on not 2 2 Malta Count Minner	40/55
1. LOP/GAP – or not? 2 Malta Sound Mirror A Falklands Ending for a Type 42	42/55 43/50
ENIAC's Programmers	44/55
1 Car-mounted HF/DF 2 'Autobombics' 3 WW1 German destroyers V44/8	
Air to Air Missiles – World War 1!	46/52
Floppy Disk and Nuclear Weapons	47/52
Fylingdales Golfballs	48/47
R1100 Ben Nock Military Wireless Museum, Kidderminster	49/61 50/73
Detecting H2S England's last surface warship builder – Appledore, North Devon	50/73 51/71
Magnetrons increase your house value!	52/80
Gutta Percha with thanks to Fred Starr	53/76
BBC Home Service Programme on Radar S/Ldr Mike Dean MBE	53/201
The Trump family and British Radar via Mike Dean	55/86
Christmas 75 Years Ago! via Mike Dean	55/85
The Use of Cavalry in Modern Warfare	55/113
Call Back Yesterday – Scanner Type 83 Arthur Sallis catalogue	56/64
Answers to Technical Quiz Tech-Check 17!	56/95
Antarctic Mystery Receiver Identified! Thanks to Ken Brooks	57/53
Channel Dash 2017? Thanks to Mike Dean and the Huffington Post	58/45
76 Squadron Halifax cartoon <i>with thanks to Roger Skinner</i> The visit of 'Bomber' Harris to the USA, 1938	58/74 59/96
Manuals and Reality - <i>War's Nomads</i> , AMES 606 in the Desert.	59/96 59/140
Caption Competition	60/89
The Art of Truleigh GEE	60/145
Tsushima Veteran - Japanese Battleship Mikasa	61/123
1939 Radar Interference, El D'aba, Egypt <i>Mike Dean</i>	61/85
NASA Computer in Basement via John Kaesehagen	62/71
Other landings – the Rotajeep and ConvAir 118	62/113
British Army Wireless Set No 6	62/129
Landing by Lasers via Robert Soek	63/86
HMS Devonshire and Norfolk	63/117
British Army Wireless Set No 5	63/163
Building your own Sound Locator!	64/81
British and German airborne radio, 1940	64/155
Where in the World? 65/76	, 65/100
Saxa Vord returns!	66/97
Operation Glimmer – Obituary: Phil Brentnall, 218 Squadron	66/153
Flying Cars again! Via Richard Soek	67/89
HMS Spurius! 'Flight Deck' October 1944	67/172
1941 Painting of the Army AA Radar Earth Mat Paul Martin	68/90
A Japanese Type A Doppler on Kiska, Aleutian Islands? Mike Dear	68/144
'Ow Much? RAF Pay Grades during World War 2	69/58
Sparks!	69/93
Saxa Vord and TPS-77	70/66
Lancaster bomber reproduction by Norman Groom, Pitstone Museum	70/120
The Hitchhiker's Guide to the Army Wireless Set 36	71/83
ECM in the Boer War! via Brian Austin	71/144
Spaceport Shetland Mike Dean	72/150
Beatrice, Joan and Hedy via Walter Blanchard	73/100

Did the T1154 start life afloat? Ray Coley G3IFF	74/99
Chain Home, or not?	74/169
"Olga Pulloffski, The Beautiful Spy"	75/99
1474 flight, 3 December, 1942 RV Jones	75/173
Ships – but not at Sea!	76/73
Where did it all go? 1957 Woolwich surplus auction catalogue	76/144
A Brass EF50? Andy Young	77/130
'Trust Me, I'm an Engineer' <i>Veracity Index/ IET</i>	78/88
Veracity Prof Simon Watts	79/88
That's not supposed to happen!	79/137
Professor Willie 'Bill' Sucksmith and Magnetron Magnets	80/104
Garn Fawr <i>via Kevin Niblett</i>	80/150
Tale of the Tuba	24/30
Tale of the Tuba – the Resnatron <i>Dow and Welch</i>	25/17
Tallboy	3/24
Tangled Web, A: Chain Home Aerials	40/15
Tantallon – A.S.R.E. Extension G.A. Exeter	10/4
Tantallon – Dr Ernest Putley	11/3
Tantallon – Infra-Red Transmission Measurements Mike Dean	13/7
Target Reflectors	69/86
Target Ship HMS Agamemnon: Wireless Control details Lt Cdr Clive Kidd	80/60
Teledynamics Peter Butcher	60/5
Telecommunications in World War I, Leeds Conference on	11/19, 12/22
Terman's [Dr F] Visit to TRE: Jamming	66/107
Thales acquires Sysgo	5/23
Thales Cougar Team Radio	21/41
Thales Equipment Announcements: Watchkeeper, Sonar 2050, Smart-S M	k2,
Scout Mk 3, CAPTAS-II	20/20
Colombian Almirante Padilla Frigates; Japanese Bushmaster vehicles	22/30
Helicopter Guided Weapons, Hawkei ground vehicle, secure comms	24/36
Smart-L in Netherlands, Solas Lite in Australia	34/41
Merlin Surveillance and US Rifleman Radio	35/44
Canadian light armoured vehicle reconnaisance surveillance system	36/29
NS100 passes acceptance test	39/50
Ballistic Missile Defence Testing and Integration Contract	42/53
German Navy's Tactical Trainer: Minehunter Upgrade In Estonia	44/50
French Frigate electronics; Captas-4 sonar; Pathmaster mine CM; NS-2	200 dual-axis
multibeam radar; AUSS unmanned surface and subsurface system	52/72
Thales announce SeeMapper	28/31
Thales/ASV Halcyon Unmanned Minehunter	43/47
Thales: 4D AESA Radar; Talios Optronics pod	77/125
Thales: ABM Defence 2018: USAF/ILS: BAT-120 Laser-guided Munition Te	st 74/92
Thales: AN/PRC-148C Improved Multiband Inter-Intra Team Radio (IMBITR	
Thales: Australia's Future Sub; Sea Fire Digital Radar; Dutch Bushmaster	, 71/79
Thales: Bushmaster; Rockets for Spain and Germany: Sonar for France's	
Thales: Canadian Navy support long-term contract	62/68
Thales: CWI Transmitters; AJAX driver training simulators [UK MoD]	56/61
Thales: GM 200 MM/Compact 4D radar	80/102
Thales: HForce; Goalkeeper	69/54
Thales: Indonesia, Brazil and Kingklip Sonar	75/96
Thales: Laser-guided rockets on H145M helicopters	57/50
Thales: Naval Early Warning	55/83
Thales: Partner-C, Altesse-H, IFF, Optronics, Tiger and Crotale	76/65
Thales: Rocket launchers for MDD helicopters; MALE European Drone	70/61
maics. Nother launthers for wide helicopters, wate European Dione	1 0/0 1

Thales: Salamandre, and IFF	54/57		
Thales: Security Vehicles; Force Mult A/c; Smart-L; System 21; SAMDIS sona			
Thales: Sensors for Dassault Rafale F4: Mexican Navy Ocean Patrol Vessel	79/85		
Thales: SMART-L radar; QE Carriers; Telson Missile	64/78		
Thales: SOTAS vehicle communication system sold to Denmark	58/42		
Thales: Telson-22 rocket fit for the Mi-24 Helicopter	63/84		
Thales: Tiger Helicopter Simulators; Antares - LP active Satcom Array	78/85		
Thales: VBMR multirole armoured vehicle on display at Bastille Day, 2017	61/83		
Thales/Ultra LOS High-capacity radio; Syracuse III satcom terminals	32/41		
That's Not Supposed to Happen! HMS Walrus	73/142		
'They Do Things Differently There'; QinetiQ, Dassault and procurement	17/6		
This Month's Finds, Next Month's Articles: R1617; P24: Big Ben Indicator	74/91		
Thunderstorm Location <i>Brian Audric</i>	51/47		
Thunderstorm Location Brian Austin re Brian Audric's article in eDEN 51	52/21		
Time after Time after Time (HMS Centurion) A. Cecil Hampshire	79/90		
Top Marks: An Appeal for Information David Robertson	46/50		
Torpedo Industry The British Bernard H L Blake	58/17		
Tracing An Inter-war Aircraft	3/11		
Tracing and Restoring an F-111 Cockpit Robert Soek	21/ 24		
- F-111 Cockpit II: Cockpit to Simulator Conversion Robert Soek	22/9		
Tracing First World War Service-people – Army officers	6/10		
Tracing First World War Service-people – Army NCOs and Private Soldiers	7/11		
Tracing WW1 Relatives – Royal Navy	8/8		
Tracing WW1 Relatives - Royal Navy: WRNS (Wrens), and Y station, Stockton	9/13		
Tracing WW1 Relatives: Nurses - and a WW2 radar career!	10/18		
Transmission Lines 1995 – 2006 on CD	30/35		
Trawling the Waves: Intercept and Intelligence in WW1	19/20		
TRE Scientists: Between Government and Industry Jon Agar/ Jeff Hughes	75/49		
Treatise on Valves War Office December 1916	76/76		
TRE Training Simulators, More on the A M Uttley via Martin Bolton	51/62		
Tunis German Search Receiver RAF Coastal Command Review	35/34		
U-681, Sinking of, from both sides RAF Coastal Command Review	35/38		
U-boat MF/DF in World War II <i>John 'Jacey' Wise</i>	80/101		
UK assessments of German WW2 Airborne Radio <i>C J Edwards</i>	67/7		
Ukrainian Radar: <i>Jacey' Wise</i>	51/68		
Ultra TCS announces Orion X505 vehicle radio	39/52		
USS Fitzgerald and the ACX Crystal: Merchant Navy Ass'n Barry Wilbraham	61/76		
USS Missouri	63/87		
US Navy Collisions <i>via Antony Devereux</i>	66/86		
V-1 Delivered Propaganda Leaflet "The Other Side" - Arthur Bauer	12/17		
V-1 Autopilot Guidance System <i>Heinrich Temmer</i>	31/4		
Variable-Elevation Beam Aerial Systems for 1½ metres <i>G E Bacon</i>	77/69		
Variometers and German Military Equipment <i>Pat Hawker G3VA</i>	68/44		
	/3, 28/5		
VIE: Alan Blumlein and the Sound Locator <i>Dr Phil Judkins</i>	30/13		
Visit to Science Museum Store, Blythe House <i>via Liz Bruton &amp; John Liffen</i>	66/14		
WAAF Radar Mechanics <i>Amy Bridson</i> 43/34, 44/3	•		
'Wartime News'	23/32		
Was H2S ever fitted in the Canberra? S/Ldr Mike Dean MBE	53/178		

Watson Watt, Margaret         33/12           Watson Watt TV programme 'Castles in the Sky', 4 September 2014         26/3, 27/3, 28/5           What did Chain Home cost?         3/12           What's in a name? Chinese Military Radar John 'Jacey' Wise         80/95           What is Radar (Again)? 'Cathode Ray' (M & Scroggie)         29/22           When Telecom and ITT Were Young Maurice Deloraine (and Xmas Quiz!)         79/11           Which Microwave Landing System? Mike Hirst/Flight International         62/103           Who Knew? I: Bawdsey, German and Italian Developments         20/9           Who Knew? - III: Window         20/9           Who Knew? Bawdsey II - US, German and Russian Developments         20/12           Who Knew? RaF Aircrew, Navigation and Bombing, mid-1939 - I         25/8           Who Knew? RaF Aircrew, Navigation and Bombing, mid-1939 - II         26/12           Who Knew? - Watson Watt and Forman         22/23, 23/21           Who Knew? - Watson Watt and Forman         22/23, 23/21           Who Knews? - Zeitdrucker 38         20/13           Wiskenhauser, Gustav 1901 - 1974         29/25           Wingless Combat Norman Hill         79/49           Wireless in the Boer War Brian Austin         53/77           Wireless in the First World War The late Dr Ernest Putley         24/9           Worlad War I B
What did Chain Home cost?       3/12         What's in a name? Chinese Military Radar John 'Jacey' Wise       80/95         What is Radar (Again)? 'Cathode Ray' (M G Scroggie)       29/22         When Telecom and ITT Were Young Maurice Deloraine (and Xmas Quiz!)       79/11         Which Chicrowave Landing System? Mike Hirst/Flight International       62/103         Who Knew? - II: Bawdsey, German and Italian Developments       20/9         Who Knew? - III: It was Xmas Day in the Moray Firth       20/12         Who Knew? Bawdsey II - US, German and Russian Developments       21/3         Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I       25/8         Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - II       26/12         Who Knew? - Watson Watt and Forman       22/23, 23/21         Who Knew? - Watson Watt and Forman       22/23, 23/21         Who Knew? - Watson Watt and Forman       22/23, 23/21         Who Knew? - Gustav 1901 - 1974       29/25         Wingless Combat Norman Hill       79/49         Winterburn Dr John       53/77         Wireless in the Boer War Brian Austin       62/6         Wireless in the First World War The late Dr Ernest Putley       75/31         Worlad Maria Basts       1/3         Working on MoD Equipment - Reginald Whitlock       4/18, 5/19, 6/18, 7/20, 8/13, 9/22<
What's in a name? Chinese Military Radar John 'Jacey' Wise         80/95           What is Radar (Again)? 'Cathode Ray' (M G Scroggie)         29/22           When Telecom and ITT Were Young Maurice Deloraine (and Xmas Quiz!)         79/11           Which Microwave Landing System? Mike Hirst/Flight International         62/103           Who Knew? - II: Bawdsey, German and Italian Developments         20/4           Who Knew? - III: It was Xmas Day in the Moray Firth         20/12           Who Knew? Bawdsey II - US, German and Russian Developments         21/3           Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I         25/8           Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I         26/12           Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - II         26/12           Who Knew? Watson Watt and Forman         22/23, 23/21           Who Knew? - Watson Watt and Forman         22/23, 23/21           Who Knows? - Zeitdrucker 38         20/13           Wikkenhauser, Gustav 1901 - 1974         29/25           Wingless Combat Norman Hill         79/49           Wireless in the First World War The late Dr Ernest Putley         75/31           Wireless Telephony on Aeroplanes C E Prince         24/9           Wormera John Kaesehagen         36/6, 37/32, 38/9, 39/43,40/34, 41/71           World War I Belgian Infra-red Signalling
What is Radar (Again)? 'Cathode Řay' (M G Scroggie)       29/22         When Telecom and ITT Were Young Maurice Deloraine (and Xmas Quiz!)       79/11         Which Microwave Landing System? Mike Hirst/Flight International       62/103         Who Knew? - II: Window       20/9         Who Knew? - III: Window       20/9         Who Knew? Bawdsey II - US, German and Russian Developments       21/3         Who Knew? Bawdsey II - US, German and Russian Developments       21/3         Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I       25/8         Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I       26/12         Who Knew? - Watson Watt and Forman       22/23, 23/21         Who Knows? - Zeitdrucker 38       20/13         Wikkenhauser, Gustav 1901 - 1974       29/25         Wingless Combat Norman Hill       79/49         Winterburn Dr John       53/77         Wireless in the Boer War Brian Austin       62/6         Wireless Telephony on Aeroplanes C E Prince       24/9         Woomera John Kaesehagen       36/6, 37/32, 38/9, 39/43,40/34, 41/71         Wootton Aerial Masts       1/3         World War I Belgian Infra-red Signalling System Mike Dean       21/19         World War I Bujan Infra-red Signalling System Mike Dean       21/19         World War I Buzzers, Sounders an
When Telecom and ITT Were Young Maurice Deloraine (and Xmas Quiz!) Which Microwave Landing System? Mike Hirst/Flight International Who Knew? - I: Bawdsey, German and Italian Developments 20/4 Who Knew? - II: Window 20/9 Who Knew? - III: It was Xmas Day in the Moray Firth 20/12 Who Knew? Bawdsey II - US, German and Russian Developments 21/3 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 26/12 Who Knew? - Watson Watt and Forman 22/23, 23/21 Who Knows? - Zeitdrucker 38 20/13 Wikkenhauser, Gustav 1901 - 1974 29/25 Wingless Combat Norman Hill 79/49 Winterburn Dr John 53/77 Wireless in the Boer War Brian Austin 62/6 Wireless in the First World War The late Dr Ernest Putley 75/31 Wireless Telephony on Aeroplanes C E Prince 24/9 Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 - Response Clive Kidd 41/24 - Article Clive Kidd 41/24 - World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle WT Transmitter Type 52 World War 2 YouTube films WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WM Tuner Circuits 68/17 WW2 Radar Films on DVD
Which Microwave Landing System? Mike Hirst/Flight International Who Knew? - I: Bawdsey, German and Italian Developments 20/4 Who Knew? - II: Window 20/9 Who Knew? - III: It was Xmas Day in the Moray Firth 20/12 Who Knew? Bawdsey II - US, German and Russian Developments 21/3 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 26/12 Who Knew? - Watson Watt and Forman 22/23, 23/21 Who Knows? - Zeitdrucker 38 20/13 Wikkenhauser, Gustav 1901 - 1974 29/25 Wingless Combat Norman Hill 79/49 Winterburn Dr John 53/77 Wireless in the Boer War Brian Austin 62/6 Wireless in the First World War The late Dr Ernest Putley 75/31 Wireless Telephony on Aeroplanes C E Prince 24/9 Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 Response Clive Kidd 41/24 Article Clive Kidd 41/24 Article Clive Kidd 41/24 WIT Transmitter Type 52 Tolly Wird War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films WREN Courrier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Who Knew? - I: Bawdsey, German and Italian Developments 20/9 Who Knew? - II: Window 20/9 Who Knew? - III: It was Xmas Day in the Moray Firth 20/12 Who Knew? Bawdsey II - US, German and Russian Developments 21/3 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 - I 26/12 Who Knew? - Watson Watt and Forman 22/23, 23/21 Who Knows? - Zeitdrucker 38 20/13 Wikkenhauser, Gustav 1901 - 1974 29/25 Wingless Combat Norman Hill 79/49 Winterburn Dr John 53/77 Wireless in the Boer War Brian Austin 62/6 Wireless Telephony on Aeroplanes C E Prince Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 - Response Clive Kidd 41/24 - Article Clive Kidd 42/25 W/T Receiver Model Td W/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films WREN Courrier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Who Knew? – II: Window Who Knew? – III: It was Xmas Day in the Moray Firth 20/12 Who Knew? Bawdsey II – US, German and Russian Developments 21/3 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – II 26/12 Who Knew? – Watson Watt and Forman 22/23, 23/21 Who Knows? – Zeitdrucker 38 20/13 Wikkenhauser, Gustav 1901 – 1974 29/25 Wingless Combat Norman Hill 79/49 Winterburn Dr John 53/77 Wireless in the Boer War Brian Austin 62/6 Wireless in the First World War The late Dr Ernest Putley 75/31 Wireless Telephony on Aeroplanes C E Prince Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 - Response Clive Kidd 41/24 - Article Clive Kidd 41/24 - Article Clive Kidd 41/24 - WT Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Who Knew? – Ill: It was Xmas Day in the Moray Firth  Who Knew? Bawdsey II – US, German and Russian Developments  21/3 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – I  25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – II  26/12 Who Knew? — Watson Watt and Forman  22/23, 23/21 Who Knows? — Zeitdrucker 38  20/13 Wikkenhauser, Gustav 1901 – 1974  29/25 Wingless Combat Norman Hill  79/49 Winterburn Dr John  53/77 Wireless in the Boer War Brian Austin Wireless in the First World War The late Dr Ernest Putley  75/31 Wireless Telephony on Aeroplanes C E Prince  24/9 Woomera John Kaesehagen  36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts  1/3 Working on MoD Equipment - Reginald Whitlock  4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean  21/19 World War I Buzzers, Sounders and Vibrators  40/9  - Response Clive Kidd  41/24 - Article Clive Kidd  41/24 - Article Clive Kidd  41/25 W/T Receiver Model Td W/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators  40/9 Woodbridge Ju88, The, John Maeckle World War 2 YouTube films  8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood W/T Tuner Circuits  68/17 WW2 Radar Films on DVD 3/23
Who Knew? Bawdsey II – US, German and Russian Developments Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – II 26/12 Who Knew? – Watson Watt and Forman 22/23, 23/21 Who Knows? – Zeitdrucker 38 20/13 Wikkenhauser, Gustav 1901 – 1974 29/25 Wingless Combat Norman Hill 79/49 Winterburn Dr John 53/77 Wireless in the Boer War Brian Austin 62/6 Wireless in the First World War The late Dr Ernest Putley 75/31 Wireless Telephony on Aeroplanes C E Prince 24/9 Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 - Response Clive Kidd 41/24 - Article Clive Kidd 41/24 - Article Clive Kidd 41/24 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – I 25/8 Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – II 26/12 Who Knew? – Watson Watt and Forman 22/23, 23/21 Who Knows? – Zeitdrucker 38 20/13 Wikkenhauser, Gustav 1901 – 1974 29/25 Wingless Combat Norman Hill 79/49 Winterburn Dr John 53/77 Wireless in the Boer War Brian Austin 62/6 Wireless in the First World War The late Dr Ernest Putley 75/31 Wireless Telephony on Aeroplanes C E Prince 24/9 Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 Response Clive Kidd 41/24 - Article Clive Kidd 41/24 - Article Clive Kidd 41/24 - World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Who Knew? RAF Aircrew, Navigation and Bombing, mid-1939 – II  Who Knew? – Watson Watt and Forman  22/23, 23/21  Who Knows? – Zeitdrucker 38  20/13  Wikkenhauser, Gustav 1901 – 1974  29/25  Wingless Combat Norman Hill  79/49  Winterburn Dr John  53/77  Wireless in the Boer War Brian Austin  62/6  Wireless in the First World War The late Dr Ernest Putley  75/31  Wireless Telephony on Aeroplanes C E Prince  24/9  Woomera John Kaesehagen  36/6, 37/32, 38/9, 39/43,40/34, 41/71  Wootton Aerial Masts  1/3  Working on MoD Equipment - Reginald Whitlock  World War I Belgian Infra-red Signalling System Mike Dean  21/19  World War I Buzzers, Sounders and Vibrators  40/9  - Response Clive Kidd  - Article Clive Kidd  41/24  - Article Clive Kidd  41/24  World War 1 Buzzers, Sounders and Vibrators  40/9  W/T Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  40/9  Woodbridge Ju88, The, John Maeckle  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  8/23  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  W1 Tuner Circuits  68/17  WW2 Radar Films on DVD  3/23
Who Knew? – Watson Watt and Forman       22/23, 23/21         Who Knows? – Zeitdrucker 38       20/13         Wikkenhauser, Gustav 1901 – 1974       29/25         Wingless Combat Norman Hill       79/49         Winterburn Dr John       53/77         Wireless in the Boer War Brian Austin       62/6         Wireless Telephony on Aeroplanes C E Prince       24/9         Woomera John Kaesehagen       36/6, 37/32, 38/9, 39/43,40/34, 41/71         Wootton Aerial Masts       1/3         Working on MoD Equipment - Reginald Whitlock       4/18, 5/19, 6/18, 7/20, 8/13, 9/22         World War I Belgian Infra-red Signalling System Mike Dean       21/19         World War I Buzzers, Sounders and Vibrators       40/9         - Response Clive Kidd       42/25         W/T Receiver Model Td       16/19         W/T Transmitter Type 52       15/21         World War 1 Buzzers, Sounders and Vibrators       40/9         Woodbridge Ju88, The, John Maeckle       79/74         World War 2 YouTube films       8/23         WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood       51/66         WW1 Tuner Circuits       68/17         WW2 Radar Films on DVD       3/23
Wikkenhauser, Gustav 1901 – 1974       29/25         Wingless Combat Norman Hill       79/49         Winterburn Dr John       53/77         Wireless in the Boer War Brian Austin       62/6         Wireless in the First World War The late Dr Ernest Putley       75/31         Wireless Telephony on Aeroplanes C E Prince       24/9         Woomera John Kaesehagen       36/6, 37/32, 38/9, 39/43,40/34, 41/71         Wootton Aerial Masts       1/3         Working on MoD Equipment - Reginald Whitlock       4/18, 5/19, 6/18, 7/20, 8/13, 9/22         World War I Belgian Infra-red Signalling System Mike Dean       21/19         World War I Buzzers, Sounders and Vibrators       40/9         - Response Clive Kidd       41/24         - Article Clive Kidd       42/25         W/T Receiver Model Td       16/19         W/T Transmitter Type 52       15/21         World War 1 Buzzers, Sounders and Vibrators       40/9         Woodbridge Ju88, The, John Maeckle       79/74         World War 2 YouTube films       8/23         WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood       51/66         WW1 Tuner Circuits       68/17         WW2 Radar Films on DVD       3/23
Wingless Combat Norman Hill  Winterburn Dr John  S3/77  Wireless in the Boer War Brian Austin  Wireless in the First World War The late Dr Ernest Putley  T5/31  Wireless Telephony on Aeroplanes C E Prince  Woomera John Kaesehagen  36/6, 37/32, 38/9, 39/43,40/34, 41/71  Wootton Aerial Masts  1/3  Working on MoD Equipment - Reginald Whitlock  World War I Belgian Infra-red Signalling System Mike Dean  21/19  World War I Buzzers, Sounders and Vibrators  Response Clive Kidd  Article Clive Kidd  Article Clive Kidd  WIT Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  S1/66  WW1 Tuner Circuits  68/17  WW2 Radar Films on DVD
Winterburn Dr John  Wireless in the Boer War Brian Austin  Wireless in the First World War The late Dr Ernest Putley  Wireless Telephony on Aeroplanes C E Prince  Woomera John Kaesehagen  36/6, 37/32, 38/9, 39/43,40/34, 41/71  Wootton Aerial Masts  1/3  Working on MoD Equipment - Reginald Whitlock  World War I Belgian Infra-red Signalling System Mike Dean  21/19  World War I Buzzers, Sounders and Vibrators  Response Clive Kidd  Article Clive Kidd  Article Clive Kidd  WIT Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WEN Courier, The Passing of the via Clive Kidd, HMS Collingwood  WW1 Tuner Circuits  68/17  WW2 Radar Films on DVD
Wireless in the Boer War Brian Austin  Wireless in the First World War The late Dr Ernest Putley  Wireless Telephony on Aeroplanes C E Prince  Woomera John Kaesehagen  36/6, 37/32, 38/9, 39/43,40/34, 41/71  Wootton Aerial Masts  1/3  Working on MoD Equipment - Reginald Whitlock  World War I Belgian Infra-red Signalling System Mike Dean  21/19  World War I Buzzers, Sounders and Vibrators  Response Clive Kidd  Article Clive Kidd  Article Clive Kidd  W/T Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  S1/66  WW1 Tuner Circuits  68/17  WW2 Radar Films on DVD
Wireless in the First World War The late Dr Ernest Putley  Wireless Telephony on Aeroplanes C E Prince  Woomera John Kaesehagen  36/6, 37/32, 38/9, 39/43,40/34, 41/71  Wootton Aerial Masts  1/3  Working on MoD Equipment - Reginald Whitlock  World War I Belgian Infra-red Signalling System Mike Dean  21/19  World War I Buzzers, Sounders and Vibrators  Response Clive Kidd  Article Clive Kidd  Article Clive Kidd  W/T Receiver Model Td  W/T Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  51/66  WW1 Tuner Circuits  68/17  WW2 Radar Films on DVD
Wireless Telephony on Aeroplanes C E Prince Woomera John Kaesehagen 36/6, 37/32, 38/9, 39/43,40/34, 41/71 Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators - Response Clive Kidd - Article Clive Kidd - Article Clive Kidd W/T Receiver Model Td W/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators Woodbridge Ju88, The, John Maeckle World War 2 YouTube films WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Woomera John Kaesehagen Wootton Aerial Masts 1/3 Working on MoD Equipment - Reginald Whitlock World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators - Response Clive Kidd - Article Clive Kidd - Article Clive Kidd W/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators 40/9 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle World War 2 YouTube films WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
Wootton Aerial Masts  Working on MoD Equipment - Reginald Whitlock  World War I Belgian Infra-red Signalling System Mike Dean  World War I Buzzers, Sounders and Vibrators  Response Clive Kidd  Article Clive Kidd  Article Clive Kidd  W/T Receiver Model Td  W/T Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  WW1 Tuner Circuits  WW2 Radar Films on DVD  1/3  Working on MoD Equipment - Reginald Whitlock  4/18, 5/19, 6/18, 7/20, 8/13, 9/22  4/18, 5/19, 6/18, 7/20, 8/13, 9/22  4/19  4/19  4/124  - Article Clive Kidd  41/24  - Article Clive Kidd  41/24  - Article Clive Kidd  42/25  W/T Receiver Model Td  16/19  W/T Transmitter Type 52  15/21  World War 1 Buzzers, Sounders and Vibrators  40/9  World War 2 Hollingwood  51/66  WW1 Tuner Circuits  68/17
Working on MoD Equipment - Reginald Whitlock 4/18, 5/19, 6/18, 7/20, 8/13, 9/22 World War I Belgian Infra-red Signalling System Mike Dean 21/19 World War I Buzzers, Sounders and Vibrators 40/9 - Response Clive Kidd 41/24 - Article Clive Kidd 42/25 W/T Receiver Model Td 16/19 W/T Transmitter Type 52 15/21 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
World War I Belgian Infra-red Signalling System Mike Dean World War I Buzzers, Sounders and Vibrators Response Clive Kidd Article Clive Kidd Article Clive Kidd W/T Receiver Model Td M/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators Woodbridge Ju88, The, John Maeckle World War 2 YouTube films WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WW1 Tuner Circuits WW2 Radar Films on DVD  21/19 2
World War I Buzzers, Sounders and Vibrators - Response Clive Kidd - Article Clive Kidd W/T Receiver Model Td 16/19 W/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
- Response Clive Kidd 41/24 - Article Clive Kidd 42/25 W/T Receiver Model Td 16/19 W/T Transmitter Type 52 15/21 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood 51/66 WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
- Article Clive Kidd  W/T Receiver Model Td  W/T Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  WW1 Tuner Circuits  WW2 Radar Films on DVD  42/25  42/25  42/25  42/25  40/9  42/25  40/9  40/9  79/74  68/23  8/23  WREN Collingwood  51/66  3/23
W/T Receiver Model Td  W/T Transmitter Type 52  World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  WW1 Tuner Circuits  WW2 Radar Films on DVD  16/19  15/21  15/21  16/19  16/19
W/T Transmitter Type 52 World War 1 Buzzers, Sounders and Vibrators 40/9 Woodbridge Ju88, The, John Maeckle 79/74 World War 2 YouTube films 8/23 WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
World War 1 Buzzers, Sounders and Vibrators  Woodbridge Ju88, The, John Maeckle  World War 2 YouTube films  WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood  WW1 Tuner Circuits  WW2 Radar Films on DVD  40/9  79/74  8/23  8/23  51/66  3/23
Woodbridge Ju88, The, John Maeckle World War 2 YouTube films WREN Courier, The Passing of the via Clive Kidd, HMS Collingwood WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
World War 2 YouTube films  WREN Courier, The Passing of the <i>via Clive Kidd, HMS Collingwood</i> WW1 Tuner Circuits  WW2 Radar Films on DVD  8/23  51/66  3/23
WREN Courier, The Passing of the <i>via Clive Kidd, HMS Collingwood</i> WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
WW1 Tuner Circuits 68/17 WW2 Radar Films on DVD 3/23
WW2 Radar Films on DVD 3/23
Xmas Quiz: Where in the World? Answers 78/5
Xmas Quiz – continued! <i>Via David Robertson</i> 79/9
Xmas Quiz – continued! <i>Via David Robertson</i> 80/7
Zimmermann, Searching for, <i>Andreas Marklund</i> 37/9

## **DEHS PUBLICATIONS**

Year	Title	Members	Non-Members	
1995	The Origins and Development of Radar	Out of pri	Out of print at present	
1996	Topics in the History of Sonar	7.00	8.50	
1997	The History of Navigation Aids	6.50	8.00	
1998	History of IFF and DF	7.50	9.00	
1999	History of Military Communications	£8.50	£10.00	
2000	History of Guided Weapons	£6.50	£8.00	
2001	Air Defence 1940–1990	£7.00	£8.50	
2002	Naval Electronics	£6.50	£800	
2003	Clandestine Radio Communications	£8.50	£10.00	
2004	Battlefield Electronic Systems (Land, Sea and Air)	£6.50	£8.00	
2005	Electronics that Revolutionized Warfare	£8.50	£10.00	
2006	Airborne Electronics	£8.50	£10.00	
2007	Government & Commercial Electronics R&D	£6.50	£8.00	
2008	Applications of Defence R&D	£8.00	£9.50	
2010	2010 International Conference on the origins and evolution of the cavity magnetron	£11.00	£12.50	
2010	CD-ROM version of above	£5.00*	£6.00	
2010	Key Components for EW. The Lessons for Today	£9.00	£10.50	
2011	CD-ROM of HISTEST2011 proceedings	£5.00*	£6.00	
2012	Communications: Clandestine & Tactical	£10.00	£12.00	
2012	Communications: Strategic & General	£12.00	£14.00	
2012	Intercept	7.00	£8.50	
2014	Chess: Electronic Warfare & Bomber Offensive in Europe: an Attempt at Balance	£8.00	£9.50	
	The Beginnings of British Radar, by Brian Callick	£7.00	£8.50	
	Russell Burns' book 'The Prof, Churchill and Science at War'	£25.00**	25.00**	
		_	_	

For all transactions add £2 for UK delivery, or 25% for overseas orders, to cover p&p.; \* for CD-ROMS add £1 for p&p. Send cheques to Keith Thrower, 9 The Conifers, Emmer Green, Reading, RG4 8AQ. Email: <a href="mailto:kthrower@waitrose.com">kthrower@waitrose.com</a>

<sup>\*\*</sup>For the Burns book, please send £25, payable to the DEHS, to Simon Blumlein, 13 Heathfield Road, Petersfield, Hants.