

MALVERN RADAR AND TECHNOLOGY HISTORY SOCIETY

England & Wales · Charity number 1183001

Details

Other names	MRATHS
Status	Registered
Legal form	CIO
Registered	2019-04-16
Register	View on the Charity Commission register

Contact

Address	c/o Thomson & Bancks Solicitors 37 High Street Pershore Worcestershire WR10 1AH
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Activities

Objects: THE OBJECTIVE OF THE CIO IS TO ADVANCE EDUCATION FOR THE PUBLIC BENEFIT OF THE SCIENTIFIC & CULTURAL HERITAGE ARISING FROM THE GOVERNMENT RESEARCH ESTABLISHMENTS IN AND AROUND MALVERN BY ALL OR ANY OF THE FOLLOWING MEANS:-A. EXHIBITIONS, LECTURES, TALKS, MEDIA AND PUBLICATIONS ETC.B. HELPING LOCAL EDUCATIONAL BODIES USE OUR HERITAGE TO PROMOTE STEM (SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS) AND MODERN HISTORY, PARTICULARLY AMONGST YOUNG PEOPLE.C. ENRICHING THE CHARITY'S ARCHIVE MATERIAL SO THAT IT CAN BE USED FOR PUBLIC BENEFIT.D. RESTORING HERITAGE ARTEFACTS ASSOCIATED WITH MALVERN'S SCIENTIFIC HERITAGE; ANDE. WORKING IN CO-OPERATION WITH OTHER ORGANISATIONS HAVING SIMILAR OBJECTIVES.3.1.2. NOTHING IN THIS CONSTITUTION SHALL AUTHORISE AN APPLICATION OF THE PROPERTY OF THE CIO FOR THE PURPOSES WHICH ARE NOT CHARITABLE IN ACCORDANCE WITH SECTION 7 OF THE CHARITIES AND TRUSTEE INVESTMENT (SCOTLAND) ACT 2005 AND SECTION 2 OF THE CHARITIES ACT (NORTHERN IRELAND) 2008.

Activities: We advance public knowledge of the scientific& cultural heritage arising from the government research establishments in and around Malvern. We help local educational bodies. We collect, preserve, protect and enrich the charity's archive material for public benefit. We restore artefacts associated with Malvern's scientific heritage. We cooperate with organisations with similar objectives.

Classification

- **How:** Provides Services, Provides Advocacy/advice/information, Sponsors Or Undertakes Research
- **What:** Education/training, Arts/culture/heritage/science
- **Who:** Other Charities Or Voluntary Bodies, The General Public/mankind

Geography

- **Area of benefit:** IN AND AROUND MALVERN
- Throughout England And Wales

Finances

Period end	Income	Expenditure	Assets	Employees
2025-12-31	£10,592	£8,349	-	-
2024-12-31	£11,389	£9,972	-	-
2023-12-31	£12,683	£10,460	-	-
2022-12-31	£23,374	£11,446	-	-
2021-12-31	£5,404	£4,065	-	-

Trustees

Name	Role	Appointed
Dr Roger Appleby FInstP	Chair	2020-03-11
Darren James Coe		2020-03-11
David Humphrey		2024-03-20
Dr Dennis John Williams PhD.		2020-03-11
John Peter Gillham		2020-03-11
Lewis John Amphlett		2020-03-11
Martin Godfrey Hutchinson		2020-03-11
Michael Charles Burstow		2020-03-11
Ronald Henry		2020-03-11

MALVERN RADAR AND TECHNOLOGY HISTORY SOCIETY

England & Wales - Charity number 1183001

Accounts



Malvern Radar And Technology History Society (MRATHS) - Charity 1183001

Annual Report - 2025

Summary

The continuing success and public interest in our museum, “The Technology Station” benefits the charity in several ways. Improving our visibility in the UK and abroad has increased opportunities to give outreach talks and engaged the public in the social aspects of our history. The Technology Station is enabled by our archive and the knowledge of our Trustees, members and visitors.

Our Archive, hosted at the QinetiQ plc site in Malvern, continues to receive donations. During 2025, parts of the archive were moved at QinetiQ’s request and rationalisation continues. As we grow, we receive an increasing number of enquiries from the public and other organisations.

Trustee meetings have been held in person thanks to the generous provision of meeting facilities at QinetiQ.

We continue to hold bi-monthly open meetings with news of our activities and a talk about a topic of interest to the members. These are held at Malvern College.

Our financial position remains strong, allowing investment in public facing work planned for 2026.

1 Public Benefit

Exhibitions and Publications

Our museum “The Technology Station” received a further 1000 visitors in its 2025 season. Notably, visitors from outside the county and from abroad have increased as local visitors have decreased. This museum has benefitted the charity in a number of ways. Our visibility in the UK and abroad has improved. It has increased opportunities to give outreach talks and engage the public in the social aspects of our history.

Our charity has provided 16 public talks including our open meetings and 3 exhibitions

We gave a talk and had an exhibit about VE Day in Malvern in Victoria Park on Armed Forces day and produced a display for Malvern Museum and QinetiQ Family Day on VE and VJ Day.

Our best seller book, ‘Boffins come to Malvern’, written by Trustee Martin Hutchinson has sold a further 137 copies this year. We have written two articles for the Malvern Civic Society’s journal ‘Bandstand’, which is distributed to 400 members.

A new book, telling the story of Malvern's high performance cooled thermal imaging programme has been published with the help of our archive.

We are currently supporting Dennis Williams (MRATHS) in writing a book on radar research flying 1935 to 1977 which will be published by Crécy.

We provided advice and some 80 photos for the play 'Malvern's Secret War Heroes' by Rachel Tobin, staged at Malvern Theatres and at Elgar's birthplace to paying audiences.

Our website at <https://mraths.org.uk> has been updated and a section added called Malvern Connections. This mirrors the work of Bawdsey Radar Trust, one of our collaborative partners, in collecting the stories of staff members who served at Malvern.

Requests for Information

We continue to receive requests for information (39 in 2025 with several still active), which are collated and managed through our on-line Ticket system. Of these, 20 concerned family members' careers. In most cases, we have been able to provide at least some information. The remainder were to provide information or images to support other historical societies and researchers.

2 Board of Trustees and Board of Management

The Board of Trustees are sad to report the death of Trustee David Williamson. David was an enthusiastic and knowledgeable Trustee and a driving force behind our progress from an informal club to the CIO Charity we are today. David will be sorely missed.

At the AGM on the 12th March 2025 three of the Trustees retired by rotation as required by the Charity Commission. The membership re-elected all three as indicated in the table below.

The Trustees are currently:

Roger Appleby†	Chairman and Website Admin
Mike Burstow	Public Engagement
David Williamson†*	Secretary
Lew Amphlett	Treasurer
Martin Hutchinson†	Exhibitions co-ordinator
Darren Coe	
John Gillham	Education
Dennis Williams†	
Ron Henry	Enquiries from the Public
David Humphrey	Collection Manager

† Re-elected Trustees

*Deceased

3 Membership

The total number of members at the end of 2025 was 179, including 6 honorary members.

4 The Archive

The physical move of much of the archive between rooms within QinetiQ has taken considerable volunteer effort this year. It has, however, provided an opportunity to consolidate and rationalise the collection. It has also revealed a considerable number of items which are yet to be catalogued.

We have continued to catalogue these items as well as donations and the large collection of material from other establishments and organisations which relate to work at Malvern. We are maintaining a box-level catalogue of the complete archive and a map of their physical location. The cataloguing of the contents of the boxes (e.g. reports and memoranda) is used to inform our on-line document search tool. We are grateful to the volunteers who have worked on this.

We have established a digital store for electronic media (e.g. scanned reports and images) in the archive, which we continue to update.

We have web-based search tools for reports and for images. The image tool requires further development, but the images and negative register from the photographic unit for 1941 to 1953 have been combined. These images can be viewed via the member's wiki.

Enquiries continue to arrive, many of which take a significant amount of time and effort to answer.

The archive is providing much of the material for the displays at The Technology Station.

5 External Bodies

We have continued to work with our colleagues in closely related charities, the Defence Electronic History Society (charity 5148919) and the Communications and Electronics Museum Trust (charity 293539) to produce jointly exhibitions and talks at The Bawsey Radar Trust (charity 1125600).

6 Volunteers

Our volunteers have been busy in the Archive, conducting research for future projects, designing and building exhibition pieces, restoring historic equipment for display and helping at exhibitions. They also run "The Technology Station" and visitors particularly appreciate their knowledge in answering questions and sharing more about our history and the stories behind the technologies.

7 Challenges for 2026

We are in a period of steady growth, membership is increasing as is the public benefit delivered through the Technology Station, Lectures and invited talks. Our major challenges for 2026 are:

- Recruit further suitably skilled Trustees
- Increase volunteer numbers to spread the load and enable us to deliver more public benefit
- Continue to promote the social history behind the scientific work and its effect on the local area

8 Financial Statement

Income & Expenditure

Malvern Radar & Technology History Society (MRATHS)
For the year ended 31 December 2025

Account	2025	2024	
	General	General	Restricted
Turnover			
Income - Events	0.00	920.00	
Income - Talks	205.00	230.00	
Membership Subscriptions	2,575.00	2,360.00	
Miscellaneous Income	50.00		
Sales - Archivist	0.00	832.19	
Sales - Books	1,425.00	1,414.00	
Sales - Museum	271.00	764.89	
Total Turnover	4,526.00	6,521.08	0.00
Cost of Sales			
Museum merchandise	0.00	1,206.13	
Speakers Expenses	0.00	117.20	
Stock Movement	655.78	(317.33)	
Total Cost of Sales	655.78	1,006.00	0.00
Gross Profit	3,870.22	5,515.08	0.00
Administrative Costs			
Bank Charges	73.92	255.81	
Consumables	199.80	300.60	
Depreciation Expense	3,392.42	2,108.12	
Equipment <500	171.77	1,033.73	
Exhibition Expenses	578.84	1,517.50	
Insurance	371.76	346.62	
Light, Power, Heating	30.99	120.65	
Meeting expenses	105.33	81.48	
Postage, Freight & Courier	52.64	15.45	
Printing & Stationery	0.00	276.08	
Room Hire	2,160.00	2,563.12	
Software	382.73	156.09	
Subscriptions	172.80	191.63	
Total Administrative Costs	7,693.00	8,966.88	0.00
Operating Profit	(3,822.78)	(3,451.80)	0.00
Other Income			
Donations	3,602.23	2,353.26	
Gift Aid	2,464.00	793.49	
Grants - Restricted	0.00	0.00	1,722.00
Total Other Income	6,066.23	3,146.75	1,722.00
Profit on Ordinary Activities	2,243.45	(305.05)	1,722.00
Excess Income over Expenditure (in year)	2,243.45	1,416.95	

Notes:

Petty cash income and expenses for 2025 are included in the figures above

Donations all in one code 2025 - see by Workgroup for breakdown

Balance Sheet

As at 31-12-2025

Balance Sheet

Malvern Radar & Technology History Society (MRATHS)

As at 31 December 2025

<u>Account</u>	<u>31 Dec 2025</u>	<u>31 Dec 2024</u>
Fixed Assets		
Tangible Assets		
Asset - Equipment (inc IT)	5,121.54	1,942.74
Asset - Equipment (Restricted Grants)	5,875.86	5,875.86
Asset - Furniture & Fittings	2,690.99	2,690.99
Less Accumulated Depreciation on Equipment (inc IT)	(2,031.04)	(1,942.74)
Less Accumulated Depreciation on Equipment (Restricted)	(5,875.86)	(3,917.24)
Less Accumulated Depreciation on Furniture & Fittings	(1,495.00)	(149.50)
Total Tangible Assets	4,286.49	4,500.11
Total Fixed Assets	4,286.49	4,500.11
Current Assets		
Cash at bank and in hand		
Current Bank Account	24,032.56	23,865.83
Petty Cash	30.00	30.00
Petty Cash (Museum)	30.00	30.00
Total Cash at bank and in hand	24,092.56	23,925.83
Accounts Receivable	80.00	26.42
Book Stock	2,119.35	2,724.87
Museum stock	1,080.54	1,130.80
Prepayments	622.09	193.71
Total Current Assets	27,994.54	28,001.63
Creditors: amounts falling due within one year		
Accruals	2,584.49	120.65
Total Creditors: amounts falling due within one year	2,584.49	120.65
Net Current Assets (Liabilities)	25,410.05	27,880.98
Total Assets less Current Liabilities	29,696.54	32,381.09
Net Assets	29,696.54	32,381.09
Capital and Reserves		
Current Year Earnings	2,243.45	20.00
Retained Earnings	32,381.09	30,964.14
Total Capital and Reserves	34,624.54	30,984.14

MALVERN RADAR AND TECHNOLOGY HISTORY SOCIETY

England & Wales - Charity number 1183001

Accounts



Malvern Radar And Technology History Society (MRATHS) - Charity 1183001

Annual Report - 2024

Summary

An opportunity arose in February 2022 to open a small STEM museum in Great Malvern Station. Following a protracted process the lease was granted in February 2024 and The Technology Station (TTS) opened in May 2024. It was open on Wednesday afternoons and Saturday mornings. The TTS saw over 1200 visitors, with around £1000 received from donations and merchandise sales. It closed for the winter at the end of November and will re-open in March 2025.

We have held eight public meetings and people can attend in person or online. These meetings consist of a section on MRATHS news and an invited speaker on a topic of interest to the society. The meeting ends with refreshments and time to chat.

This year we have increased the number of talks to other organisations, exhibitions and other outreach activities.

The historically important collection in our Archive is hosted at the QinetiQ plc site in Malvern and continues to receive donations. As the society grows, we are receiving an increasing number of enquiries from the public and other organisations.

Sadly, our archivist, Hugh Williams, passed away in 2024 and we will miss his phenomenal knowledge of our history and his enthusiastic support. The Trustees have appointed David Humphrey to succeed Hugh. David has begun the process of rationalising the Archive to reduce the floorspace occupied.

Trustee meetings have been held in person thanks to the generous provision of meeting facilities at QinetiQ. We are also grateful for permission to use rooms on the QinetiQ site for our archive.

Our balance sheet remains healthy and will underpin our plans for 2025

I Public Benefit

As an Educational Charity we deliver several public benefits. These are set out as objectives in our Constitution. The public benefit delivered in 2024 is summarised below.

STEM Museum – The Technology Station

Our lease was granted in February, following a very protracted negotiation. Build was completed by mid-May and the museum opened on 23rd May. The museum closed at the end of November for the winter. It will re-open on 1st March 2025 with displays updated. Despite being open for only two half days each week we have welcomed more than 1200 visitors and taken over £1,000 in donations and sales.

This project received grants in previous years from Malvern Hills Town Council, West Midlands Trains Ltd, and the West Midlands Community Rail partnership.

Open Public Meetings

We continue to hold public hybrid meetings which combine people attending in person with people on-line. These meetings consist of a section on MRATHS news and an invited speaker on a topic of interest to the society. We have worked to improve the reliability and quality for our online attendees during 2024, some of whom cannot attend in person.

The year's meetings were again all held in Malvern College's Lewis lecture theatre and are shown in the table below.

January 2024	BRIXMIS in Cold War East Germany
March 2024	AGM. Artificial Intelligence, Past, Present and Future: A Perspective on the Ghost in the Machine
May 2024	Uncooled Thermal Imaging
June 2024	80 th D-Day Celebration. Part 1 We Plan, the Gods Laugh
June 2024	80 th D-Day Celebration. Part 2 Went the day Well?
July 2024	Space Based Solar Power for a secure, equitable and sustainable future.
September 2024	Where Does all the Heat Go?
November 2024	ASTOR - A Personal perspective

The attendance varied between 42 and 72 with ~75% attending in person.

All meetings have been video-recorded and are made available to members on the MRATHS Wiki, subject to clearance from the speakers.

Website The internet domain mraths.org.uk, which includes the main website, the members wiki and wikindx received between 250 and 350 clicks per month. The opening of The Technology Station resulted in a greater interest in the summer months.

The Technology Station Facebook site has 160 followers and continues to be a useful channel for communicating with interested parties.

We have introduced an online automated ticketing system for responding to external enquiries. It pulls together all enquiries including email, website or personal contacts via Trustees. It allows all Trustees to see the request for information and the ticket can be assigned to the most relevant Trustee or expert.

Facebook

The membership of the closed Facebook group has grown steadily in 2024 and ended the year at 577 members. Facebook continues to contribute to our story and to share the history of the Malvern sites. The Trustees would like to thank David Whitaker for continuing his excellent work administering the site.

Requests for Information

We continue to receive requests for information (~27 in 2024 with several still active) concerning family members' careers, and in most cases, we have been able to provide at least some information. We are collating these through our Ticket system

We are also getting requests from other historical societies and historians. Those we have supported in 2024 include the QinetiQ, GCHQ Museum, the Defence Electronics Historical Society and the Colwell Village Society.

Exhibitions and Publications

We have exhibited at RHS Malvern Spring Festival, Armed Forces Day, QinetiQ Family Day, Malvern Autumn show and produced a display for Malvern Museum on D Day.

Our best seller book, 'Boffins come to Malvern', written by our trustee Martin Hutchinson has sold a further 350 copies this year, bringing total distribution to some 1400 copies. We have written three articles for the Malvern Civic society's journal "Bandstand", which is distributed to 400 members.

We are currently supporting Dennis Williams (MRATHS) to write a book on radar research flying 1935 to 1977 which will be published by Crécy.

Our own research continues, often with the help of other societies including the Communications and Electronic Museum Trust, the Defence Electronics History Society and the Defford Airfield Heritage Group.

Restoration

We continue our active support of the Communication & Electronics Museum Trust (Charity 293539) with the restoration and replication of historic radar equipment.

Our museum exhibit, the Battle of the Atlantic includes a restored ASV MkII receiver and Indicator (operator's display).

A restored H2S modulator together with an H2S Transmitter were displayed by CEMT and MRATHS at Birmingham University in June for an IEEE event. This was a special International Award to celebrate the 80th Anniversary of the resonant cavity magnetron.

2 Board of Trustees and Board of Management

At the AGM on the 8th March 2024 three of the Trustees retired by rotation as required by the Charity Commission. The membership re-elected all three as indicated in the table below.

We have been developing and refining our new model of working with increasing emphasis on working groups. The Board of Management will only now meet as necessary to coordinate large projects.

The Trustees are currently:

Roger Appleby	Chairman and Website Admin
Mike Burstow	
David Williamson	Secretary
Lew Amphlett	Treasurer
Martin Hutchinson†	Exhibitions co-ordinator
Darren Coe†	
John Gillham†	
Dennis Williams	
Ron Henry	Enquiries from the Public
David Humphrey	Collection Manager

† Re-elected Trustees

3 Membership

The total number of members at the end of 2024 was 151 including 6 honorary members.

4 The Archive

Enquiries continue to arrive, many of which take a significant amount of time and effort to answer.

Discussions with the closing RAF Signals Museum at Henlow resulted in MRATHS receiving the donation of a WW2 Indicator CR21.

The archive is providing much of the material for the displays at The Technology Station.

The Communications Electronic Museum Trust loaned us a large collection of radio jamming equipment which was used in a major exhibition to mark the 80th anniversary of D Day in 2024.

We have now finished cataloguing all the Malvern related report series and have moved on to the equally large collection of material from other establishments and organisations.

We now have a high-level catalogue (down to box level) of the complete archive and a map of their physical location. We have introduced a collection management policy based upon the nine Primary Procedures of the Spectrum 5.0 UK collection management standard. We are grateful to the volunteers who have worked on this.

A considerable amount of effort has gone into moving and consolidating the QinetiQ hosted archive. Whilst the collection has been rationalised, it has also revealed a considerable number of items which are yet to be catalogued.

We have web-based search tools for reports and for images. The image tool requires further development, but the images and negative register from the photographic unit for 1941 to 1953 have been combined. These images can be viewed via the wiki.

Sales of surplus and duplicate items have raised a significant sum for Society funds.

5 External Bodies

We have continued our collaboration with several other charities and groups with similar interests. Excellent mutual support and collaboration has been delivered with the Communications and Electronic Museum Trust, Charity 293539 and the Defence Electronics History Society.

We also worked with the Civic Society in placing a Green plaque on The Lees (Malvern College) to commemorate the first operational synchrotron. This device used magnetic fields to generate high energy X-rays which are now used for medical imaging and material analysis. This principle is also used in the Large Haron collider at CERN.

6 Volunteers

Our volunteers have been busy helping in the Archive, conducting research for future projects, designing and building exhibition pieces, restoring historic equipment for display and helping at exhibitions and the museum. The new museum has just enough volunteers, and we thank them for their loyal service. Visitors enjoy the extra information from the volunteers and MRATHS gains a lot of new stories from the visitors.

7 Challenges for 2025

- Extending the lease for The Technology Station.
- Increasing volunteer numbers to support The Technology Station and all of MRATHS other activities.
- Develop long-term plans for the archive to ensure that the work of MRATHS is not lost.
- Review our web based communication

8 Financial Statement

The accounts were Independently examined by Jeannie Robertson a member of the Institute of Certified Bookkeepers. The Trustees wish to express their warm thanks for undertaking this task again this year. With her agreement, the Board will propose her re-appointment at the AGM to serve for 2025.



Lewis Amphlett

Treasurer

23 February
2025



Roger Appleby

Chairman

23 February
2025

Statement of Income & Expenditure

As at 31-12-2024

Malvern Radar & Technology History Society (MRATHS)

For the year ended 31 December 2024

Account	2024		2023	
	General	Restricted	General	Restricted
Trading Income				
Income - Events	920.00		0.00	
Income - Talks	230.00		100.00	
Membership Subscriptions	2,360.00		2,095.00	
Sales - Archivist	832.19		4,259.53	
Sales - Books	1,414.00		3,180.45	
Sales - Museum	764.89		0.00	
Total Turnover	6,521.08	0.00	9,634.98	0.00
Cost of Sales				
Grant purchases (non-restricted)	0.00		3,038.60	
Museum merchandise	1,206.13		0.00	
Purchases - Restricted Grants (not Assets)	0.00		0.00	114.49
Speakers Expenses	117.20		108.00	
Stock Movement	(317.33)		1,729.66	
Total Cost of Sales	1,006.00	0.00	4,876.26	114.49
Gross Profit	5,515.08	0.00	4,758.72	(114.49)
Administrative Costs				
Advertising & Marketing	0.00		100.00	
Bank Charges	255.81		91.32	
Consumables	300.60		639.97	
Depreciation Expense	2,108.12		1,958.63	
Equipment <500	1,033.73		436.12	
Exhibition Expenses	1,517.50		0.00	
Insurance	346.62		202.24	
Light, Power, Heating	120.65			
Meeting expenses	81.48		25.88	
Postage, Freight & Courier	15.45		3.49	
Printing & Stationery	276.08		2.00	
Room Hire	2,563.12		2,010.00	
Software	156.09		0.00	
Subscriptions	191.63		0.00	
Total Administrative Costs	8,966.88	0.00	5,469.65	0.00
Operating Profit	(3,451.80)	0.00	(710.93)	(114.49)
Other Income				
Donations	2,353.26		286.00	
Donations - Non-Members	0.00		121.80	
Gift Aid	793.49		679.30	
Grants - Restricted	0.00	1,722.00		1,800.00
Other Receipts/Donations	0.00		161.00	
Total Other Income	3,146.75	1,722.00	1,248.10	1,800.00
Profit on Ordinary Activities	(305.05)	1,722.00	537.17	1,685.51

Excess Income over Expenditure (in year)

1,416.95

2,222.68

Notes:

Petty cash income and expenses for 2024 are included in the figures above

Donations all in one code 2024 - see by Workgroup for breakdown

Balance Sheet

As at 31-12-2024

Malvern Radar & Technology History Society (MRATHS)

For the year ended 31 December 2024

Account	31 Dec 2024	31 Dec 2023
Fixed Assets		
Tangible Assets		
Asset - Equipment (inc IT)	1,942.74	1,942.74
Asset - Equipment (Restricted Grants)	5,875.86	5,875.86
Asset - Furniture & Fittings	2,690.99	0.00
Less Accumulated Depreciation on Equipment (inc IT)	(1,942.74)	(1,942.74)
Less Accumulated Depreciation on Equipment (Restricted)	(3,917.24)	(1,958.62)
Less Accumulated Depreciation on Furniture & Fittings	(149.50)	0.00
Total Tangible Assets	4,500.11	3,917.24
Total Fixed Assets	4,500.11	3,917.24
	<i>See Assets Sheet</i>	
Current Assets		
Cash at bank and in hand		
Current Bank Account	23,865.83	23,183.65
Petty Cash	30.00	36.38
Petty Cash (Museum)	30.00	0.00
Total Cash at bank and in hand	23,925.83	23,220.03
Accounts Receivable	26.42	0.00
Book Stock	2,724.87	3,538.34
Museum Stock	1,130.80	0.00
Prepayments	193.71	288.53
Total Current Assets	28,001.63	27,046.90
Creditors: amounts falling due within one year		
Accruals	120.65	0.00
	<i>See Accruals & Prepayments Sheet</i>	

Total Creditors: amounts fall due within one year	120.65	0.00
Net Current Assets (Liabilities)	27,880.98	27,046.90
Total Assets less Current Liabilities	32,381.09	30,964.14
Net Assets	32,381.09	30,964.14
Capital and Reserves		
Current Year Earnings	1,416.95	<i>See Inc & Exps 2024 sheet</i> 2,222.68
Retained Earnings	30,964.14	28,741.46
Total Capital and Reserves	32,381.09	30,964.14

MALVERN RADAR AND TECHNOLOGY HISTORY SOCIETY

England & Wales - Charity number 1183001

Accounts



Malvern Radar And Technology History Society (MRATHS) - 1183001

Annual Report - 2023

Summary

An exciting and significant new opportunity was presented to us in February 2022 to open a small STEM museum in Great Malvern Station. This has been delayed due to delays in the sponsor's programme but this project is now underway (February 2024).

The book titled 'Boffins come to Malvern' written by our Trustee Martin Hutchinson has sold 1000 books this year. with 800 remaining of the original 2000. This demonstrates public benefit well beyond our membership of ~150.

We continue public hybrid meetings which combine people attending in person with people on line. These meetings consist of a section on MRATHS news and an invited speaker on a topic of interest to the society. We have worked to improve the reliability and quality for our online attendees during 2023 some of whom cannot attend in person.

We have visited other groups and organisations and been able to deliver talks and other outreach activities in person, although at a lower level than in past years.

The historically important collection in our Archive is hosted at the QinetiQ plc site in Malvern and continues to receive donations. As the society grows we are receiving an increasing number of enquiries from the public and other organisations.

Trustee meetings have been held in person thanks to the generous provision of meeting facilities at QinetiQ.

Our balance sheet remains healthy and will underpin our plans for 2024.

1 Public Benefit

As an Educational Charity we deliver several public benefits. These are set out as objectives in our Constitution. The public benefit delivered in 2023 is summarised below.

1.1 STEM Museum

The venue will be called 'The Technology Station' and will be inside in Great Malvern Railway Station. The lease was executed on the 22nd January 2024 and we were given access to the premises on 9th February 2024. Following our build phase, we now hope to open the museum sometime in late April. The Technology Station will include exhibits which cover: World War II, The Cold War, social history and more recent technological breakthroughs such as thermal imaging.

1.2 Open Public Meetings

We continue public hybrid meetings which combine people attending in person with people on-line. These meetings consist of a section on MRATHS news and an invited speaker on a topic of interest to the society. We have worked to improve the reliability and quality for our online attendees during 2023, some of whom cannot attend in person.

The year's meetings were again all held in Malvern College's Lewis lecture theatre and are shown in the table below.

January 2023	The History of Christchurch 1939-1942 ADEE/ADRDE
March 2023	AGM Making the National Air Traffic Control System Operational
May 2023	The war in Ukraine: a military assessment
July 2022	Orange Poodle and Other Exotic Beasts - A potted history of HF Radar in the UK
September 2023	British S-----t Projects: Jet Fighters since 1950
November 2023	Sat Nav (GNSS) Past present and Future

Meetings were again very popular with attendances varying between 40 and 80 with roughly 55% attending in person.

All meetings apart from the September meeting have been video-recorded and are made available to members on the MRATHS Wiki, subject to clearance from the speakers.

1.3 Website

The website (mraths.org.uk) was reviewed and made simpler and more accessible to users. The stories which bring life to research and technology developed at the establishment were made searchable.

This year we added links on our Wiki to the 5 talks given at our general meetings.

A Facebook page was generated featuring, 'The Technology Station' and will be used as the main communication channel with the public.

A central ticketing system (OS Ticket) is being trialled to bring together requests for information from Facebook, the website and by email. This will allow Trustees and volunteers to track and resolve these enquires more efficiently.

All of our websites including the main site, the wiki and the reports index were added to Google Search Console in the spring of 2023. This has produced a steady increase in the number of online visitors with Google reporting 200 clicks in December. This in turn has produced a steady increase in the number of enquiries.

1.4 Facebook

The membership of the closed [Facebook group](#) has grown steadily in 2023 and ended the year at ~500. Facebook continues to contribute to our story and to share the history of the Malvern sites. The Trustees would like to thank David Whitaker for continuing his excellent work administering the site.

1.5 Requests for Information

We continue to receive requests for information (~25 in 2023) concerning family members' careers, and in most cases, we have been able to provide at least some information.

We are also getting requests from other historical societies and historians.

1.6 Exhibitions

We have exhibited at the Malvern Spring Festival and the Autumn show with the other Malvern charities.

The full-size model of the navigator's position in the Avro Lancaster with original electronics, including the H2S radar, was exhibited at QinetiQ. This exhibit was funded in collaboration with the Communications and Electronic Museum Trust.

1.7 Historic Research

The book titled 'Boffins come to Malvern' written by our Trustee Martin Hutchinson has sold 1000 books this year. with 800 remaining of the original 2000. This demonstrates public benefit well beyond our membership of ~150.

We are currently supporting Dennis Williams (DAHG and MRATHS) to write a book on radar research flying 1935 to 1977 which will be published by Crécy.

Our own research continues, often with the help of other societies including the Communications and Electronic Museum Trust, the Defence Electronics History Society and the Defford Airfield Heritage Group.

1.8 Restoration

We continue our active support of the Communication & Electronics Museum Trust (Charity 293539) with the restoration and replication of historic radar equipment.

The Lancaster project described in Exhibitions above, was also a restoration project.

Our Airborne Surface Vessel display illustrating the Battle of the Atlantic benefits from a restored ASV MkII receiver and Indicator (operator's display).

Other restoration projects are underway including the build of an H2S modulator.

2 Board of Trustees and Board of Management

At the AGM on the 8th March 2023 three of the Trustees retired by rotation as required by the Charity Commission. The membership re-elected all three as indicated in the table below.

Mike Burstow stood down as chairman at the end of 2022 and Roger Appleby was elected as the new chairman in 2023.

We have been developing and refining our new model of working with increasing emphasis on working groups. The Board of Management will only now meet as necessary to coordinate large projects.

The Trustees are currently:

Update below

Roger Appleby	Chairman and Website Admin
Mike Burstow †	.
David Williamson	Secretary
Lew Amphlett †	Treasurer
Hugh Williams	Archivist
Martin Hutchinson	Exhibitions co-ordinator
Darren Coe	
John Gillham	
Dennis Williams *	
Ron Henry†	Enquiries from the Public
David Humphrey	

* Also Museum Curator at Defford
Airfield Heritage Group

† Re-elected Trustees

3 Membership

The total number of members was 149 at the end of 2023.

4 The Archive

Enquiries continue to arrive, sometimes on a daily basis, which consume a significant amount of time and effort to answer.

Discussions have opened with the RAF museum at Henlow and the Royal Signals museum at Blandford Camp over potential collaboration / sharing of resources.

The archive is providing much of the material for the displays at Great Malvern Railway Station.

The Communications Electronic Museum Trust have loaned us a large collection of jamming equipment which will be used in a major exhibition to mark D Day in 2024.

We have now finished cataloguing all the Malvern related report series and have moved on to the equally large collection of material from other establishments and organisations.

We now have a high-level catalogue (down to box level) of the complete archive and a map of their physical location. We have introduced a collection management policy based upon the nine Primary Procedures of the Spectrum 5.0 UK collection management standard. We are grateful to the two volunteers who have worked on this.

There are web-based search tools for reports and for images. The image tool requires further development, but the images and negative register from the photographic unit for 1941 to 1953 have been combined. These images can be viewed via the wiki.

Sales of surplus and duplicate items have raised a significant sum for Society funds.

5 External Bodies

We have continued our collaboration with several other charities and groups with similar interests. Excellent mutual support and collaboration has been delivered with the Communications and Electronic Museum Trust, Charity 293539 and the Defence Electronics History Society.

6 STEM Museum – The Technology Station

The project, originally timetabled to complete by March 2023 was delayed by extensive repair work to the premises by Network Rail and West Midlands Trains. However, the project began on 9th February 2024 following delays to the execution of the lease.

This project has received grants from Malvern Hills Town Council, West Midlands Trains Ltd, and the West Midlands Community Rail partnership.

7 Volunteers

Our volunteers who help us with public exhibitions have been underutilised, but others have been busy helping in the Archive, conducting research for future projects, designing and building exhibition pieces and restoring historic equipment for display. The new museum will rely on our volunteers, and we thank them for their patience while waiting for this project to start.

8 Challenges for 2024

The opening of the Technology Station will be a step change for the society. It will provide us with an opportunity to increase our public benefit and raise our profile. We will need to increase the number of volunteers and train them to ensure smooth operation of the exhibition.

9 Financial Statement

The accounts were Independently examined by Jeannie Robertson a member of the Institute of Certified Bookkeepers. The Trustees wish to express their warm thanks for undertaking this task again this year. With her agreement, the Board will propose her re-appointment at the AGM to serve for 2024.



Lewis Amphlett

Treasurer

3 March 2024



Roger Appleby

Chairman

3 March 2024

Statement of Income & Expenditure

As at 31-12-2023

	2023		2022		
	General	Restricted	General	Restricted	
INCOME/RECEIPTS					
Members subscriptions	£2,095.00		£2,080.00		
Members donations	£286.00		£241.00		
Non-members donations	£121.80		£39.03		
Other Payments/Donations	£161.00		£0.00		
Sales of Archivist items	£4,259.53		£4,783.62		
Talks	£100.00		£90.00		
Book Sales	£3,180.45		£5,130.99		
Event ticket sales			£1,068.75		
Gift Aid	£679.30		£0.00		
Miscellaneous income			£41.00		
Grant - QinetiQ			£2,500.00		
Grant - Malvern Town Council (GMS)				£2,400.00	
Grant - West Midlands Trains (GMS)				£5,000.00	
Grant - WMCA (GMS)		£1,800.00			
	£10,883.08	£1,800.00	£15,974.39	£7,400.00	
PAYMENTS					
Consumables	£639.97		£575.74		
Depreciation	£1,958.63		£189.67		Note 1
Equipment, computers & software (under £500 per item)	£436.12		£635.54		
Exhibition facilities	£0.00		£329.45		
Hire of Meeting venues/rooms	£2,010.00		£1,320.00		
Speakers fees	£108.00		£140.00		
Miscellaneous	£127.88		£22.08		
Ebay fees/postage	£0.00		£912.04		
Postage	£3.49		£4.45		
Public Liability Insurance	£202.24		£193.82		
Sale Books stock	£1,729.66		£3,811.75		
Bank charges	£91.32		£96.02		
Great Malvern Station (GMS)	£3,038.60	£114.49		£3,209.65	
	£10,345.91	£114.49	£8,230.55	£3,209.65	
	£537.17	£1,685.51	£7,743.84	£4,190.35	
Excess Income over Expenditure (in year)	£2,222.68		£11,934.19		
Notes:					
1	Petty cash income and expenses for 2023 are included in the figures above				

Balance Sheet

As at 31-12-2023

Statement of Assets & Liabilities					
		31-Dec-23		31-Dec-22	
Fixed Assets					
	Equipment	£1,942.74		1942.74	
	Equipment Depreciation	-£1,942.74		-1942.74	
	GMS assets	£5,875.86		5623.20	
	GMS assets depreciation	-£1,958.62		0.00	
			£3,917.24	<i>See Assets Sheet</i>	5623.20
Current Assets					
	Bank Account	£23,183.65		17645.31	
	Book stock	£3,538.34	806 @ £4.39	5268.00	
	Prepayments	£288.53	<i>See Prepayments Sheet</i>	172.48	
	Petty Cash	£36.38	<i>See Petty Cash sheet</i>	32.46	
			£27,046.90		23118.25
Current Liabilities					
			£0.00		0.00
Net Current Liabilities					
			£27,046.90		£23,118.25
NET ASSETS			£30,964.14		£28,741.45
Equity					
	Profit b/f 2022	£28,741.46		16807.27	
	Retained profit 2023	£2,222.68	<i>See Inc & Exps 2023 sheet</i>	11934.19	
	TOTAL EQUITY		£30,964.14		£28,741.46
			0.00		-0.00

MALVERN RADAR AND TECHNOLOGY HISTORY SOCIETY

England & Wales - Charity number 1183001

Accounts



Malvern Radar And Technology History Society

Ninth Annual Report - 2022

1 Introduction

This is the ninth annual report of the Society and the fourth as a registered charity. The Society, charity registration number 1183001, is based in Malvern, Worcestershire and its mission is:

"to celebrate Malvern's extraordinary scientific heritage".

2 Summary

An exciting and significant new opportunity was presented to us in February 2022 to open a small STEM museum in Great Malvern Station. We have received significant grant money for this project from Malvern Town Council and West Midlands Trains through their Rail Community Partnership scheme. The project began in earnest in September and is due to reach completion in Q2 2023 when we will open to the public.

We held a bumper crop of public meetings. They were virtual at the beginning of the year but reverted to hybrid meetings in May, when people could either attend in person or participate online. This has suited many members who are less mobile or live at a distance. Talks and interviews with ex staff members have been recorded and posted on our members private Wiki.

We have been able to deliver talks and other outreach activities in person although at a lower level than in 2019.

The historically important collection in our Archive is hosted at the QinetiQ site in Malvern and their agreement to continue hosting us is very much appreciated.

Once again Trustee meetings have been held in person thanks to Covid-secure meeting facilities provided by QinetiQ with those unable to attend joining via phone or video conferencing. We are grateful to QinetiQ for allowing us to use these facilities.

Our volunteer base has grown and has been working hard on our new projects.

Our Balance sheet remains healthy and will underpin all our plans for 2023.

3 Public Benefit

As an Educational Charity we deliver several public benefits. These are set out as objectives in our Constitution:

3.1 STEM Museum

An exciting and significant new opportunity was presented to us in February 2022 to open a small STEM museum in Great Malvern Station. We have received significant grant money for this project from Malvern Town Council and West Midlands Trains through their Rail Community Partnership scheme. Further grant money has been offered and will be delivered in early 2023. The project began in earnest in September with the refurbishment by West Midlands Trains of two rooms in Great Malvern station that were formerly a flower shop. This work has taken longer than planned but has improved the fabric of this part of the Grade II listed building. MRATHS expect to begin fitting out the museum in March 2023 and be ready for visitors in Q2 2023 when we will open to the public. This is a major step up for our Society. We are hugely grateful for the support of the Malvern Town Council, West Midlands Trains and the West Midlands Combined Authority, a community rail partnership.

3.2 Open Public Meetings

The 2022 year's bumper set of meetings were all held in Malvern College Lewis lecture theatre. We thank Malvern College hugely for supporting us and have forged even stronger links with them in 2022 by supporting their curricula activities during the year.

January 2022	The Viper microprocessor & The FLEX computer architecture
March 2022	AGM Whaddon Hall and the Special Communications Units – A story seldom told
May 2022	11 May: British ASV Bombsights 1941-1946 28-29 May: 80 th Anniversary of Scientists coming to Malvern Launch of 'The Flame of Resistance', Damien Lewis
July 2022	Stealing the Nazi's Secrets, Dr Philip Judkins
September 2022	Developments in Battlefield Surveillance Radar How World War II was won on the playing fields of Malvern
November 2022	Surprising Inventions from Malvern's Scientists Microgravity Sensing for seeing Underground

The May and September meetings were very popular with more than 100 attendees each day and many from across the country. The past meetings that have been video-recorded are being made available to members on the MRATHS Wiki where clearance has been obtained from the speakers.

3.3 Website

2022 saw more international interest than ever and licences were granted to use our material for a number of organisations. A refresh of our website is planned for 2023.

This year we added links on our Wiki to 16 new multimedia items. This included videos of talks presented at General meetings and items generated by Trustees.

More members are also adding their on-line histories and short biographies and the Wiki is a great place for members to record their own stories of the people and technologies involved in the research work done at Malvern.

If Members find it difficult to input information to the Wiki, the Trustees are always available to help. We can receive input in electronic or hard copy form that we will transcribe and upload to the Wiki, if required.

3.4 Facebook

The membership of the closed Facebook group has grown steadily in 2022 and ended the year around 430. Facebook continues to contribute to our story and to share the history of the Malvern sites. The Trustees would like to thank David Whitaker for administering the site.

3.5 Requests for Information

We continue to receive requests for information on family members' careers, and in most cases we have been able to provide at least some information.

Increasingly we are getting requests from other historical societies and historians, often referred to us from other groups, requiring us to do more in depth research. Recent examples have concerned the early history of the Steamer Point site and the use of HF radar at Orford Ness. These requests are of mutual benefit and the society often receives donations of photographs, reports and artefacts. The information provided on Steamer Point is being used in an application to Historic England to have the remaining wartime buildings listed.

3.6 Exhibitions

As in 2021, Covid restrictions, have limited opportunities for exhibitions. However, in 2023 we will have the opportunity for a permanent museum. We will continue to support local events where resources allow. We still need more volunteers willing to stage exhibitions. Members interested in helping with this aspect of our work are invited to contact the trustees.

3.7 Historic Research

As reported in 2021, one of our Trustees was writing a book on the wartime work of TRE and ADRDE and the effect they had on Malvern. This book was published in May at our special event to celebrate 80 years since radar scientists came to Malvern. It has since become the best seller in Malvern Book Cooperative bookshop. We congratulate the author, Martin Hutchinson. We are also very grateful to QinetiQ for providing funding for the professional layout of the text and illustrations.

We are currently supporting authors, documenting the history of the apprentice scheme, writing about the early history of thermal imaging and another on trials aircraft used at Defford and Pershore.

Our own research continues, often with the help of other societies; a current topic is the TRE's wartime Guarlford listening station.

3.8 Restoration

We continue our active support of the Electronic Restoration Group with the restoration and replication of historic radar equipment. In 2022 the restored ASV equipment was on display at the celebration of 80th anniversary of the formation of the establishment at Malvern.

4 Board of Trustees and Board of Management

At the AGM on the 8th March 2022 three of the Trustees retired by rotation as required by the Charity Commission. The membership re-elected all three as indicated in the table below.

We have been developing and refining our new model of working that we set up last year with overall control of the Society in the hands of the Board of Trustees (BoT) and a Board of Management (BoM) who coordinate Working Groups that are responsible for delivering the Society's programme.

The Trustees are currently:

Mike Burstow	Chairman
Roger Appleby †	Vice-Chair and Website Admin.
David Williamson	Secretary
Lew Amphlett	Treasurer
Hugh Williams †	Archivist
Martin Hutchinson †	Exhibitions co-ordinator
Darren Coe	
John Gillham	
Dennis Williams *	
Ron Henry	Enquiries from the Public

- * Also Museum Curator at Defford Airfield Heritage Group
- † Re-elected Trustees

5 Membership

The total number of members was 164 at the end of 2022 with a further 17 due to renew.

We continue to accept Internet payments (via Pay-Pal) for non-local members to renew their membership, alongside our preferred method of Standing Orders.

We have always encouraged members to provide some background information on their careers and current interests through the MRATHS closed Wiki, and a majority do so. We now ask for some basic information on joining, partly to get to know our new members, and partly to see how we might engage them as volunteers to help with our outreach activities and to broaden our knowledge base of the work done in Malvern over the years.

In 2021 the constitution was amended to include provision for voting on Motions online at Virtual meetings.

Typical attendance at public meetings has been 30+ in person and 30+ online.

A benefit of Virtual meetings is that members who cannot ordinarily attend meetings in person were able to participate online. The concept of a hybrid meeting was proposed with some attendees in person and some online. A poll of members confirmed that there is continued benefit in hybrid meetings and the society will run them where possible.

6 The Archive

Once again only a small number of visits to the archive have taken place. Enquiries continue to arrive, sometimes on a daily basis, which consume a significant amount of time to answer.

Cataloguing activity continues with the emphasis now being on material from other organisations. A new volunteer has joined in this task enabling sorting and recording of much of the donated material we hold.

Discussions have opened with the RAF museum at Henlow and the Royal Signals museum at Blandford Camp over potential collaboration / sharing of resources.

The archive is providing much of the material for the displays at Great Malvern Station.

The Communications Electronic Museum Trust have loaned us a large collection of jamming equipment which will be used in a major exhibition to mark D Day in 2024.

Sales of surplus and duplicate items have raised a significant sum for Society funds.

7 External Bodies

Our submission to Malvern Town Council for Street names for the new development, Malvern Rise, on the ex RSRE South Site were accepted and the first street names have begun to appear.

We have continued our collaboration with several other charities and groups with similar interests, to share information and exchange ideas for future developments. The partnership agreement with The Communication and Electronic Museum Trust (Charity 293539) has developed well and significant mutual benefit has been evident; both shared costs, fund raising and exhibition design.

Bawdsey Radar Trust
Defence Electronic History Society (DEHS)
Malvern Museum
Defford Airfield Heritage Group
South Yorkshire Air Museum (SYAM), Doncaster
The Electronic Restoration Group (ERG)

8 Science Centre

The plans for a Science Centre have been supplanted by an offer from West Midlands Trains to use an unused space in Great Malvern Station for a Community STEM Museum. The ambition of opening a Science Centre in partnership with QinetiQ, Malvern Hills District Council, and Worcestershire County Council is on hold. There have been significant delays to the Malvern Technology Park development. Future opportunities will be monitored as support in the local STEM community for a Science Centre remains strong.

9 Volunteers

Our volunteers who help us with public exhibitions have been underutilised, but others have been busy helping in the Archive, conducting research for future projects, designing and building exhibition pieces and restoring historic equipment for display. The new museum will now fully engage our volunteers and we thank them warmly.

10 Challenges for 2023

- To strengthen our educational work by working with other educational bodies.

- To deliver our STEM Museum and thus broaden our reach to the wider public.
- To plan for succession.

11 Financial Statement

Income for 2022 (Appendix 1) was £15,974, compared with £4,824 reported in 2021. Three new income items contributed to this major uplift. Book sales £5,130, Event Ticket sales of £1,068, and grants totalling £7,400. Sales of donated items for fund raising also was up from £1,699 to £4,783.

The principal increase in 2022 MRATHS expenditure was the investment in material for the Great Malvern Station £3,209. Another new expense in 2022 was rent for our workshop where we design and construct our exhibits.

At the end of 2022 the net asset level (Appendix2) was £28,741, which includes book stock and museum assets. This is a strong position to underpin 2023.

The Society's major expenditures planned for 2023 all relate to the new museum and will be more than double the 2022 expenditure.

The Trustees wish to express their warm thanks to Jeanie Robertson for auditing the accounts again this year. With her agreement, the Board will propose her re-appointment at the AGM to serve for 2023.

Prepared by: _____



17/02/2023
Date

Checked by: _____



Treasurer

17/2/23
Date

Approved by: _____



Chairman

17/2/23
Date

Appendix 1: Statement of Income & Expenditure As at 31-12-2022

	2022	2022	2021
INCOME/RECEIPTS	General	Restricted	Gen/Res
Members subscriptions	£2,080.00		£2,470.00
Members donations	£241.00		£226.00
Non-members donations	£39.03		£0.00
Other Payments/Donations	£0.00		£1.97
Sales of Archivist items	£4,783.62		£1,699.43
Talks	£90.00		£422.66
Book Sales	£5,130.99		
Event ticket sales	£1,068.75		
Gift Aid	£0.00		£584.14
Miscellaneous income	£41.00		
Grant - QinetiQ	£2,500.00		
Grant - Malvern Town Council (GMS)		£2,400.00	
Grant - West Midlands Trains (GMS)		£5,000.00	
	£15,974.39	£7,400.00	£5,404.20
PAYMENTS			
Consumables	£575.74		£452.71
Depreciation	£189.67		£647.58
Equipment, computers & software (under £500 per item)	£635.54		£633.71
Exhibition facilities	£329.45		£1,128.32
Hire of Meeting venues/rooms	£1,320.00		£870.00
Speakers fees	£140.00		
Miscellaneous	£22.08		£44.45
Ebay fees/postage	£912.04		
Postage	£4.45		£0.00
Public Liability Insurance	£193.82		£202.24
Sale Books stock	£3,811.75		£77.28
Bank charges	£96.02		£9.40
Great Malvern Station (GMS)		£3,209.65	£0.00
	£8,230.55	£3,209.65	£4,065.69
	£7,743.84	£4,190.35	£1,338.51
Excess Income over Expenditure (in year)	£11,934.19		

Note 1

Notes:

- 1 Certain purchases for Greater Malvern Station have been coded to Assets. These are not part of Payments above as they are being depreciated over 3 years.
- 2 Petty cash income and expenses for 2022 are included in the figures above

Appendix 2: Balance Sheet As at 31-12-2022

Statement of Assets & Liabilities 31-Dec-22

Fixed Assets			
	Equipment	£1,942.74	
	Equipment Depreciation	-£1,942.74	
	GMS assets	£5,623.20	Deferred income
			<u>£5,623.20</u>
Current Assets			
	Bank Account	£17,645.31	
	Book stock	£5,268.00	1200 @ £4.39
	Prepayments	£172.48	
	Petty Cash	£32.46	
			<u>£23,118.25</u>
Current Liabilities			<u>£0.00</u>
Net Current Liabilities			<u>£23,118.25</u>
	NET ASSETS		<u>£28,741.45</u>
Equity			
	Profit b/f 2021	£16,807.27	
	Retained profit 2022	£11,934.19	
	TOTAL EQUITY		<u>£28,741.46</u>
			<u>0.00</u>

MALVERN RADAR AND TECHNOLOGY HISTORY SOCIETY

England & Wales - Charity number 1183001

Accounts



Malvern Radar And Technology History Society

Eighth Annual Report - 2021

1 Introduction

This is the eighth annual report of the Society and the third since we became a registered charity. The Society, charity registration number 1183001, is based in Malvern, Worcestershire and its mission is:

“to celebrate Malvern’s extraordinary scientific heritage”.

2 Summary

Once again, the year has been severely impacted by the Covid-19 pandemic and we have moved many of our meetings on-line. After a test at the November meeting we have introduced Hybrid meetings, where people can either attend in person or participate online.

Our nationally important Archive of documents, photographs and physical artefacts, is still growing. We have now completed cataloguing of the Malvern reports and have moved on to other parts of the collection. The Archive remains at QinetiQ’s site in Malvern and their agreement to continue hosting us is very much appreciated.

Talks and interviews with ex staff members have been recorded and posted on our members’ private wiki.

Once again Trustee meetings have been held in person thanks to Covid-secure meeting facilities provided by QinetiQ with those unable to attend joining via phone or video conferencing. We are grateful to QinetiQ for allowing us to use these facilities.

Plans for a Science Centre have been delayed, awaiting Local Government decisions about alternatives to the original proposal to house it in the Malvern Hills Science Park (MHSP) reception.

We have had limited opportunities to deliver talks and other outreach activities and our delivery to schools remains on hold until head teachers feel it is right to resume. However, we have used the downtime to continue with preparation for the local Science Centre.

3 Public Benefit

As an Educational Charity we deliver several public benefits. These are enshrined in our Constitution and Aims and we report them here:

3.1 Open Public Meetings

This year's meetings were:

February 2021	Did the Germans have radar?
March 2021	AGM followed by historic films
May 2021	Most Secret: Defford Airfield and the story of Airborne Radar.
July 2021	ICEYE Radars in space
September 2021	The Invasion of Malvern *
November 2021	Pioneering laser anemometry in the wind industry

* Joint meeting with Malvern Civic Society

Past meetings that have been video-recorded are being made available to members on the MRATHS wiki once clearance has been obtained from the speakers.

3.2 Website

The main public-facing website received an average of 4197 visits per month with a high of 7047 in September and a low of 786 in December. The society also operates a wiki for members only and we continue to evolve and develop this.

This year we added links on this wiki to 16 new multimedia items. This included videos of talks presented at General meetings and items generated by Trustees.

More members are also adding their on-line histories and short biographies and the wiki is a great place for members to record their own stories of the people and technologies involved in the research work done at Malvern.

If Members find it difficult to input information to the Wiki, the Trustees are always available to help. We can receive input in electronic or hard copy form that we will transcribe and upload to the Wiki, if required.

3.3 Facebook

The membership of the closed Facebook group remains around 400. Progress on the development of South Site - now Malvern Vale - is of continuing interest as is the identification of mystery objects and the seeking of information about family members who worked at the Establishments. Facebook continues to be a good source of useful information and gives us an opportunity to share the history of the Malvern sites. The Trustees would like to thank David Whitaker for administering the site.

3.4 Requests for Information

We continue to receive requests for information on family members' careers, and in most cases we have been able to provide at least some information.

Increasingly we are getting requests from other historical societies and historians, often referred to us from other groups, requiring us to do more in depth research. Recent examples have concerned the early history of the Steamer Point site and the use of HF radar at Orford Ness. These requests are of mutual benefit and the society often receives donations of photographs, reports and artefacts.

3.5 Exhibitions

This year, because of Covid restrictions, we only exhibited at Science in the Park during June, and with other local societies at the Autumn Show at the Three Counties. Given the prospects for 2022, members interested in helping with this aspect of our work are invited to contact the trustees.

3.6 Historic Research

One of our Trustees is writing a book on the wartime work of TRE and ADRDE and the effect they had on Malvern. The intention is to publish this for the 80th anniversary of the May 1942 arrival of the two Establishments in Malvern. We are grateful to QinetiQ for providing funding for the professional layout of the text and illustrations.

We are currently supporting two other authors, one who is documenting the history of the apprentice scheme and the other who is writing about the early history of thermal imaging.

Our own research continues, often with the help of other societies; a current topic is the Guarlford listening station.

3.7 Restoration

We continue our active support of the Electronic Restoration Group with the restoration and replication of historic radar equipment. During 2021 a complete restoration of an ASV MkII radar receiver and indicator (operator screen) has been started and will be completed for display in 2022. The long term intention is to restore this equipment well enough for powered operation.

4 Board of Trustees and Board of Management

At the AGM on the 31st March 2021 four of the Trustees resigned as required by the Charity Commission in a rolling refresh of the Board of Trustees. The membership re-elected all four as indicated in the table below.

We have been developing and refining our new model of working that we set up last year with overall control of the Society in the hands of the Board of Trustees (BoT)

and a Board of Management (BoM) who are responsible to the BoT for delivering the Society's programme. Naturally, all the BoT members are Trustees and, initially, the BoM are also all Trustees.

The Trustees are currently:

Mike Burstow	Chairman
Roger Appleby	Vice-Chair and Website Admin.
David Williamson	Secretary
Lew Amphlett	Treasurer
Hugh Williams	Archivist
Martin Hutchinson †	Exhibitions co-ordinator
Malcolm Hopper	Minute Secretary
Darren Coe †	
John Gillham †	
Dennis Williams * †	
Ron Henry	Enquiries from the Public

* Also Museum Curator at Defford Airfield Heritage Group

† Re-elected Trustees

5 Membership

The total number of paid-up members was 167 at the end of 2021; up from 141 in 2020 or a 18% increase in the year. The total includes 20 new members - a very pleasing result - and our 5 Honorary Members. Seven members left or failed to renew their membership.

We continue to accept Internet payments (via Pay-Pal) for non-local members to renew their membership, alongside our preferred method of Standing Orders.

We have always encouraged members to provide some background information on their careers and current interests through the MRATHS closed Wiki, and a majority do so. We now ask for some basic information on joining, partly to get to know our new members, and partly to see how we might engage them as volunteers to help with our outreach activities and to broaden our knowledge base of the work done in Malvern over the years.

In 2021 the constitution was amended to include provision for voting on Motions online at Virtual meetings.

Typical attendance at virtual meetings was 30 - 40 members.

A benefit of Virtual meetings is that members who cannot ordinarily attend meetings in person were able to participate online. The concept of a hybrid meeting was proposed with some attendees in person and some online. A poll of members confirmed that there is continued benefit in hybrid meetings and the society will run them where possible.

6 The Archive

Visits to the archive have once again been at a low level due to the pandemic.

We have now finished cataloguing all the Malvern related report series and have moved on to the equally large collection of material from other establishments and organisations.

As the catalogue progresses, so does the number of requests we are able to give meaningful responses to. In addition, we now have a high-level catalogue (down to box level) of the complete archive and a map of their physical location. We have introduced a collection management policy based upon the nine Primary Procedures of the Spectrum 5.0 UK collection management standard. We are grateful to the two volunteers who have worked on this.

Recent donations include documents and photographs concerning wartime work at ADRDE (both the Christchurch and Malvern sites), a large collection of Remote Ground Sensors and part of a relatively modern airborne radar equipment. We have been liaising with the Communications Electronic Museum Trust whose members have started to consolidate their individual collections into the trust. As a result, we have been donated some quite rare GEE-H equipment.

A web based image search tool is nearing completion which brings together the photographic negative registers and a large number of matching images from 1941-1956. This should be available to members once completed. A few hundred new images have been added to the collection during the year.

Sales of surplus and duplicate items have raised a modest sum for Society funds

7 External Bodies

Our submission for Street names for the new development, Malvern Rise, on the ex RSRE South Site were accepted and the first street names have begun to appear. We are now working with MHDC and Persimmon Homes to ensure that the site history is recorded and commemorated.

We have continued our collaboration with several other charities and groups with similar interests, to share information and exchange ideas for future developments.

Bawdsey Radar Trust
Defence Electronic History Society (DEHS)
Malvern Museum
Defford Airfield Heritage Group
South Yorkshire Air Museum (SYAM), Doncaster
The Electronic Restoration Group (ERG)

8 Science Centre

The plans for a Science Centre have been further delayed and we have been part of the extensive discussions between Malvern Hills District Council, Worcester County Council and QinetiQ on the way forward.

Support in the local STEM community for a Science Centre remains strong, and it is hoped that whatever decision is made, there will be space for the Society and other

organisations to have permanent exhibitions, as well as lectures and smaller meetings to support a wide range of STEM education activities.

9 Volunteers

Our volunteers who help us with public exhibitions have been busy helping in the Archive, conducting research for future projects, designing and building exhibition pieces and restoring historic equipment for display. More volunteers are always needed, especially for public outdoor events. Please contact the Trustees if you are interested.

10 Challenges for 2021

- To strengthen our educational work by working with other educational bodies.
- To develop new exhibition material and interactive education demonstrations to be ready for a Science Centre.
- To plan for succession.

11 Financial Statement

Income for 2021 (Appendix 1) was £4824, compared with £5404 reported in 2020. Income from Member subscriptions was up from the 2020 levels by 21% and income from sales of Archivist surplus items was also up about 6%. Despite Covid19, income from talks also increased thanks to a mix of virtual and in person events.

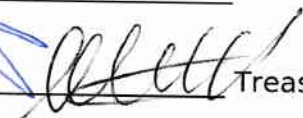
In 2021 MRATHS expenditure increased on some important new exhibits, one in partnership with the CEMT charity where cost savings were made as a result.


At the end of 2021 the net asset level (Appendix2) was £16,807.

The Society major expenditures planned for 2022 are new exhibition materials and on STEM demonstrator equipment in preparation for the Science Centre.

The Trustees wish to express their warm thanks to Jeanie Robertson for auditing the accounts again this year. With her agreement, the Board will propose her re-appointment at the AGM to serve for 2022.

Prepared by: _____  _____ 9/3/22 Date

Checked by: _____  Treasurer 9/3/22 Date

Approved by:  Chairman 9/3/22 Date

Appendix 1: Statement of Income & Expenditure As at 31-12-2021

Income / Receipts	2021	2020	Notes
Membership Subscriptions	£2,470.00	£2,025.00	
Member Donations	£226.00	£216.00	
Non-Member Donations	£0.00	£23.66	
Other Payments / Donations	£1.97	£242.49	
Sales of Archivist Items	£1,699.43	£1,596.58	
Talks	£422.66	£183.00	
Gift Aid	£584.14	£537.78	
Fundraising - Site Recording	£0.00	£0.00	
	£5,404.20	£4,824.51	
Payments			
Consumables	£452.71	£141.42	
Depreciation	£647.58	£647.58	1
Equipment, computers & software (under £500.00 / item)	£633.71	£789.49	
Exhibition Facilities	£1,128.32	£0.00	
Workshop Rent	£870.00	£120.00	
Miscellaneous	£131.13	£140.82	
Postage	£0.00	£30.28	
Public Liability Insurance	£202.24	£202.24	
Projects - Site Recording	£0.00	£100.00	
	£4,065.69	£2,171.83	
Excess of Income over Expenditure (in year)	£1,338.51	£2,652.68	2

Notes:

- 1 See Appendix 2
- 2 Petty Cash income and expenditure are included in these figures.

Appendix 2: Balance Sheet As at 31-12-2021

Statement of Assets and Liabilities

Fixed Assets		
	Equipment	£1,942.74
	Depreciation	-£1,753.07
		£189.67
Current Assets		
	Bank Account	£16,178.51
	Prepayments	£419.13
	Petty Cash	£19.96
		£16,617.60
Current Liabilities		
		£0.00
Nett Current Liabilities		
		£16,617.60
Nett Assets		
		£16,807.20
Equity		
	Profit b/f 2020	£12,816.08
	Retained Profit 2021	£1,338.50
	Total Equity	£16,807.20
		0.00