



NEWSLETTER

December 2022

The Federation wishes all societies and their members wherever they may be a Happy Christmas and a prosperous (back in the warmer workshop) New Year



The illuminated train on the Watercress line, a thrilling (and frightening) sight to see passing by at speed. Picture borrowed from the Watercress website with their encouragement. Your editor rode on the train last year and it was a lovely evening!

2022 Annual General Meeting
National Coal Mining Museum,
Caphouse Colliery, Overton, Wakefield, West Yorkshire.

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Federation of Model Engineering Societies Newsletter

Editorial

It has been fun and challenging but worth it to do the newsletter for the Federation for the past 8 years.

You would be surprised and encouraged with the help that fellow members of the committee contribute and possibly more importantly the willingness of societies to share the work of both their members and the societies' editors, there is a lot of talent out there.

A wonderful example is Richard Gibbons of the York society who allowed me to use his article on boiler testing, a spectator sport, (or not) he wrote in 2018.

Mike Chrisp has been a godsend teaching me some of rudimentary skills in getting an article together. Thank you so much Mike! Where did you learn all that?

But I am turning the role over to the next editor quite simply that I am getting old, 82 in 2023. I cannot keep up with the young bucks and I seem to be seeing too

much of the inside of hospitals. Boiler testing is an apt subject this edition, boilers leak, I leak and I sympathise with the poor boilers being crawled over by committees of 'spectators'.

So there we have it. We seek a chap or a chappess (if we can say that these days) who would be willing to have a go as the editor. For my part a glimpse into my source bucket might give help and I will reveal all, as well as a few of the corny North American stuff I put in from time to time.

Seriously though, we know it is like pulling hen's teeth to find people willing to fill society roles. On the other hand, the hobby is self regulating, self managed and self sufficient, come and keep it going, it's fun!!

David Goyder. Newsletter Editor

Chairman's Chat

Well folks this could be the last FMES newsletter for a little while. Our editor of the last few years David Goyder is hanging up his whatever it is that editors hang up when they retire. Despite many hints and pleas no one has offered to take on the role. I do find this surprising as surely there is at least one person within the 22,000 plus members of the clubs affiliated to the FMES who has the skill and time to take on this interesting and important role. So if up to now you've felt you might be "treading on someones toes" or any other reason, it's not too late to become the new editor (David is willing to act as mentor for a while). Any way, whatever happens, I'm sure you'll join me in thanking David for all the work and all the newsletters of the last few years. I may be wrong but the impression I have formed when visiting preserved railways in the last few months is that they don't have the same time to

explain the ins and outs of how things work as they once did. This is quite understandable as they must be concentrating on "getting bums on seats" to try and recover some of the revenue lost due to the covid restrictions. Some ME clubs could be in the same position, but hopefully most club members will still be answering questions put to them on how their model, whether it be a loco, an aero engine, a clock, traction engine, paddle steamer, etc is built and works. Such question and answer "sessions" could just inspire a member of the public to become interested and join us in our hobby of model engineering. It's that time of year again (where have the last twelve months gone ?) so I wish you all a Merry Christmas and a Happy New Year.

Bob Polley. Chairman

Looking forward to a busy 2023 with lots of events, open days, news and a busy post covid year. **USE the FMES EVENTS PAGE!**

The FMES website has an events calendar which members can use to inform other member organisations of their events. Please send a copy of your 2023 club events diary to peter.squire@fmes.org.uk for inclusion in the calendar.

We would also like to post news stories for the benefit of all members, so please send to the same address, news of any significant plans or achievements made.

2022 Annual General Meeting

National Coal Mining Museum,
Caphouse Colliery, Overton, Wakefield, West Yorkshire.

The AGM will be held on Saturday 25th March at the National Coal Mining Museum, Caphouse Colliery, Overton, Wakefield, West Yorkshire.

The museum is open from 10.00 am, with free entry to explore the displays, galleries and buildings. A café is available serving hot and cold drinks, snacks and lunches.

Underground tours of approximately 1 hr 20

minutes are also available but must be booked in advance with the museum.

A buffet lunch will be available to delegates in the recently built conference centre, at 12.30 pm and the formal business of the AGM will commence at 2.00 pm

More information on displays of models and post AGM discussions or workshops will be available on the FMES website.

Affiliation fee held at £10

The Federation have decided to maintain the annual affiliation fee at £10, the same rate as last year.

The affiliation fee will be invoiced by email in January 2023 much in the same way as last year.

Boiler certificate books at the AGM

There will be a limited amount of boiler certificate books etc at the Annual General Meeting this year. To guarantee yours please preorder for

collection from the Boiler Registrar on 01252 684688 or email at david.mayall@fmes.org.uk, normal club request as usual through the above contact details.

FMES 2023 Annual Rally and Australian Trophy Competition

We are pleased to announce that the FMES 2023 Rally and Australian Trophy competition will be held at Frimley Lodge Miniature Railway in Surrey on the weekend of 16

September 2023. Built and operated by Frimley and Ascot Locomotive Club (FALC), the railway has a kilometre of 3.5", 5" and 7.25" ground level track and a 200m raised 2.5", 3.5" and 5" gauge track. Our thanks to FALC

Seminar for boiler inspectors

The next seminar will be held on Saturday 22nd April 2023 at the Ellenroad Engine House Steam Museum in Rochdale. Details of the venue available at <https://www.ellenroad.org.uk/>

Places for delegates will be limited and must be reserved in advance. Please contact peter.squire@fmes.org.uk for more information

Young Engineers Federation Trophy and Polly Model Engineering Prize

Application on pages 10 & 11 of this newsletter and on the website www.fmes.co.uk

The deadline for submission of entries for the 2022 competition is 31st December, and we hope that everyone who wanted to enter has had the chance to do so. We wish all entrants the best of luck and look forward to judging entries in time for the awards to be held at our next AGM.

Tony Wood Retires



Peter Squire, Hon Secretary of the Federation of Model Engineering Societies making the presentation to Tony on behalf of the hobby

In making the presentation Peter Squire said, ...

“Many people in this exhibition will know Tony Wood through his many years of involvement providing bespoke insurance policies to Model Engineering clubs and societies as well as to individuals.

He has been a familiar friendly face at exhibitions for as long as I can remember.

It is well known that he has retired from Walker Midley Insurance Brokers and that insurance business is now in the hands of Martin Levers.

It may not be so well known that Tony has been chairman of two important committees for 23 years, and he has recently announced his retirement, as chairman of these committees

Model Engineers Liaison Group (MELG) has produced the Boiler Test Codes and Passenger

Carrying Miniature Railway Safety Group published the guidance document HS 2020, – Managing Health and Safety at Passenger Carrying Miniature Railways which as result of Tony’s determination, has been formally endorsed by HSE.

The work of these committees has encouraged the HSE to accept that the hobby is able to self-regulate in safety critical matters.

The members of the committees feel that Tony’s significant contribution to the hobby with this work should be-recognised and I am delighted to present, on behalf of the members of both committees, as a mark of their appreciation a special piece of glassware.....”

Federation of Model Engineering Societies Newsletter

Website Topics and News

BUILDING THE FUTURE

Federation of Model Engineering Societies

We provide support for affiliated Model Engineering Societies ('clubs') in the UK and Northern Ireland. We act on behalf of members in co-ordinating responses to important issues facing the hobby of Model Engineering including safety and legislation. We also promote the hobby through news, events and competitions and provide advice and guides for good practice in club activities.

FMES is a company limited by guarantee and was established originally in 1970 by Model Engineers for

The website continues to run satisfactorily...in order to make sure this happens, our contractors work in the background wrestling with updates and changes wrought by the providers of the core software for the site as part of their role for us, and our thanks for this: a key need to avoid us having to do it!

We make a few changes from time to time and we will update you with those that affect website use or appearance. Some of you may have seen a 'subscribe now' option for the newsletter. If you subscribe following the instructions, then you will be sent the newsletter to your email address directly. You do not need a password for this, and you can 'unsubscribe' at any time. This is to be found at the bottom of the home page:

Subscribe to our newsletter

Join our mailing list to receive updates from our team.

Full Name

Email Address

I agree to receive this newsletter and know that I can easily unsubscribe at any time.

SUBSCRIBE NOW!

We are trying to develop technical support and other information, and we will be updating how you can access this in the next month or two and also of



Model Engineers. We run entirely through the effort of volunteers from member clubs, seeking information and comment from commercial and official bodies where relevant.

course trying to develop the information for you to read!

Volunteers



We make no apologies for this appeal to appear again (and again, as long as it takes...). Volunteers that can help us provide our core services to a high standard are essential, and so too are volunteers that can assist us to develop these core services into new areas proposed by the strategy. There are so many opportunities for FMES and its volunteers to make a positive impact on the hobby that surely there must be people out there who would be motivated to do this and put something back into the hobby that has absorbed them? BUT we are struggling to find them. Please do consider this if you have expertise, experience and motivation to help us. Without volunteers there will be no FMES, and this is likely to start very soon as we are desperately in need of someone to take on this newsletter.

We are gauging whether each edition is the last one by one now. If you have any comments you wish to make, or questions to ask, please do not hesitate to contact us on info@fmes.org.uk

Federation of Model Engineering Societies Newsletter

Federation Annual Rally and Australia Trophy hosted by Sutton Coldfield 3rd September 2022



Federation Rally 2022

Hosted by Sutton Coldfield Model Engineering Society Ltd.



Part of the attractive 300 ft. SM32 layout.



Busy steaming bays for the 480 ft. raised track.

Hosted by members of Sutton Coldfield MES Ltd on their attractive Balleney Green site at Little Hay, Saturday's records of this year's FMES Autumn Rally, held 3rd - 4th September reveal a total of 23 visitors and 13 locomotives. More would have been welcome but those of us there enjoyed an excellent day and felt sorry for absentees. We are very grateful for the efforts of SCMES members and friends who worked hard beforehand to ensure everything was ready and spent time during the event looking after their visitors.

The Little Hay site boasts a ground level track approximately ½ mile long for 7¼ and 5in. gauge locomotives and rolling stock, a 480 ft. 5, 3½ and 2½ in. gauge raised track and a very attractively landscaped 300 ft. SM32 layout.

Saturday's proceedings included the annual competition for the Australian Association of Live Steamers Trophy awarded to the best working steam locomotive at the event modelled on a Commonwealth prototype in any gauge from 2½ - 7¼ in. inclusive. The winner is chosen by a team of three judges consisting of last year's winner and representatives of the host society and the Federation. This year's judges were Martin Parham, Phil Davies and Ivan Hurst respectively.



Bob Polley, Bob Walker and Mike Chrisp sporting co-ordinated FMES sweatshirts.



David Mayall enjoys a run with his fine 5in. gauge BR Class 2 locomotive.



Mike Chrisp presents David Mayall with the Australian Association of Live Steamers Trophy.

A similar annual competition for the Federation of Model Engineering Societies Trophy is held in Australia at the AALS Easter Convention. These trophies commemorate the affiliation of the two organisations and were first contested in 1966.

This year's AALS Trophy winner was David Mayall with his 5in. gauge BR Standard Class 2 locomotive. Very finely detailed and extremely well finished, it ran sweetly and attracted many admiring comments. Mike Chrisp, an FMES Vice President, awarded David with the AALS Trophy during the presentation which included a few words each from Bob Polley - FMES Chairman, Paul Naylor - FMES Membership Secretary, Martyn Cozens - SCMES Secretary and Ivan Hurst - the other FMES Vice President who brought formalities to a close. Martin Parham received the SCMES award for having travelled the furthest to attend the event.

The day concluded with a barbecue, much enjoyed by all present, accompanied by a choice of hot and cold drinks which had also been available throughout the day. Bacon baps were served first thing and hot samosas and a selection of cakes at lunchtime. Thanks are due to Ray and Anna Gilbert for all their work with the catering.

Federation of Model Engineering Societies Newsletter

Boiler testing as an audience participation experience.

by Richard Gibbon OBE Head of Engineering NRM 1989-2003

Richard is a member at York and wrote this for their society's benefit.

It might seem a trivial thing to be moaning about but I would like to try and persuade members NOT to treat boiler testing as a spectator sport.

We are greatly indebted to our team of boiler inspectors: they go out of their way to help owners get through what can be a stressful time before and during a boiler test. It can also be stressful for the boiler inspectors themselves when owners turn up for test with incompatible fittings for a pressure gauge test or hydraulic test. So, come on everyone, 1/4 x 40 male is the standard fitting required.

However, the real stress for both owners and testers alike comes from other parties. Spectators often gather to lean on the fence and proceed to do two things. The first is to talk loudly about their own projects, usually completely unrelated to the boiler being tested. This does NOT help the boiler testers to concentrate on the job in hand. The second is to offer advice to both hapless owner and testers (unfortunately, often from a position of ignorance).

I want to emphasise that this can be a stressful time for those involved as I know only too well from my own experiences. I would therefore like to ask that

onlookers stay away and refrain from treating this process as entertainment. It can be anything but entertaining for those involved.

On a lighter note, can I urge every member to consider putting something that they have made (or own) into the Doncaster Exhibition. Not only is it good for the club but it also gets you a free ticket. Don't worry about transport: we can take it there if you bring it to the club. It saddens us all that out of 150 Members we can only muster 30 or 40 exhibits. Come on all, let's put on a good show at Doncaster in May.... Now, that IS a spectator sport.



The proper number of people for a boiler test. The owner, in this case Phil Tattersfield, together with Ron and Alan, our two testers.

Time for a little laughter, You need to think around "old people". A tale from the wild, wild West

"An old woman walked up and tied her old mule to the hitching post.

As she stood there, brushing some of the dust from her face and clothes, a young gunslinger stepped out of the saloon with a gun in one hand and a bottle of whiskey in the other.

He looked at the woman and laughed,

"Hey old woman, have you ever danced?"

The woman looked up at the gunslinger and said,

"No ... I never did dance ... Never really wanted to"

A crowd has gathered as the young gunslinger grinned and said, "Well you old bag, you're gonna dance now!", and started shooting at the old woman's feet.

The old woman prospector - not wanting to have her toes blown off- started hopping around. Many were laughing.

When his last bullet was fired, the gunslinger, still laughing, holstered his gun and turned around to go back into the saloon.

The old woman turned to her pack mule, pulled out

a double-barrelled shotgun and cocked both hammers. The loud clicks carried clearly through the desert air, and the crowd immediately stopped laughing.

The gunslinger heard the sounds too, and turned around very slowly. The silence was almost deafening. The crowd watched tensely as he stared at the woman and the large gaping holes of those twin barrels.

The barrels of the shotgun never wavered in her hands as she quietly said, "Son, have you ever kissed a mule's ass?"

The gunslinger swallowed hard and said, "No m'am, but I've always wanted too"

THERE ARE FIVE LESSONS HERE FOR ALL OF US:

1 - Never be arrogant.

2 - Don't waste ammunition.

3 - Whiskey makes you think you're smarter than you are.

4 - Always make sure you know who has the power.

5 - Don't mess with old people; they didn't get old by being stupid."

Federation of Model Engineering Societies Newsletter



DOES YOUR HOME INSURANCE COVER YOU? INSURANCE COVER FOR INDIVIDUAL MODELLERS AND MODEL ENGINEERS

It is important that your loco's, rolling stock, model collections and home workshop are adequately insured, as should you be unfortunate enough to suffer a fire, flood or theft you may find yourself significantly out of pocket.

Model engineers often rely upon their household insurance policy to respond in the event of a loss and the potential implications of this are examined in this article.

As you may be aware, your Home Contents insurance policy can cover your household possessions against a number of perils including loss, damage, fire and theft. Home contents policies are generally designed to cover items in a typical household e.g. floor coverings, curtains, furniture, household appliances and electronics, household utensils and crockery, garden & DIY tools and equipment, clothing, sports and leisure equipment that may include pedal cycles and musical instruments.

As you will note, there is no mention in the above list of items such as 5" Gauge Loco's, Pillar Drills, Lathes, Milling Machines or Sit Astride Riding Cars and the like! There is a possibility that such items that you cherish and use in your hobby are not covered by your home insurance, so if you are in any doubt as to whether items such as these are covered under your home insurance, you should check with your home insurance provider.

In addition to this aspect, Home Content policies may also have a restriction on the sum insured contained within domestic outbuildings e.g. a shed or garage, this can be

as little as £1000. It is worth bearing in mind that this is also where you are likely to store your lawnmower, hedge trimmers and other garden, outdoor and DIY equipment, which can result in £1000 not going very far in the event a shed or garage is broken into and these items are stolen.

This is where we can help. Our policy for Individual Modellers and Model Engineers is a specialist policy where you can select only those sections of cover you require. These sections of cover can include loco's, rolling stock, other models, ancillary equipment, road trailers, personal accident, products liability, as well as portable track liability. Additionally, you can choose to insure your workshop buildings, workshop machinery, tools and equipment as well as models and materials.

Our policy provides cover for loss or damage against perils such as Fire, Theft, Storm, Flood and Accidental Damage. Insuring them on a separate specialist policy takes away the uncertainty of knowing whether your Home Insurance policy is going to pay for the replacement or repair of your Model Engineering models and equipment. It potentially saves any difficult claims conversations as well as ensuring that your household policy premium isn't impacted by claims relating to your model engineering hobby.

In order to get a quote for your Model and Model Engineering needs, simply call us on **0114 2502770** or alternatively, visit our website at www.walkermidgley.co.uk and click on the Individual Modellers tab to access our **Quote and Buy** facility and obtain an immediate quotation and cover.



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Federation of Model Engineering Societies Newsletter

David Mayall discusses building his BR Standard Class 2 2-6-0 5 in. gauge locomotive awarded the Australian Association of Live Steamers Trophy 2022



a nearly completed locomotive to take photos? Unfortunately Don mixed up the details between the LMS Class 2 2-6-0 and the BR Class 2 2-6-0. You really do need to do your research to sort this one out before deciding which version you are building!

As I built the loco, the front lubricator system became a

My introduction to engineering began when I became an apprentice at the National Gas Turbine Establishment, Pyestock, near Farnborough in Hampshire, in September 1966. Following my apprenticeship I became involved as a fitter with the gas turbine noise reduction section and then moved onto the Naval Gas turbine test section.

In the late 70s I started my model engineering career. My first engine was LBSCs Doris (LMS Black 5) and I joined Bracknell Railway Society in the early 80s where I ran the engine for a few years and visited other clubs. I then built and finished a Don Young 4F. Whilst building the 4F I saw the drawing for the BR 2, another Don Young design. This I could not resist even though it said it was for 'the more experienced builder' and the drawings were poor on dimensions. Not having the finance to fund the BR 2, I had to sell Doris to buy the castings. Doris went to an ex-pat in Australia 1985. I have recently been contacted by its second Australian owner for some history of this engine as he had seen my name in the modelling press. Pleased with his purchase, he says the engine runs like new and the boiler has passed its test, more than thirty years after being built.

Together with Conway for my wife, I have built nine locomotives, all involving different aspects of the hobby including inside cylinders, Joy valve gear, leaf springs, and detailing. I have also been involved with some rebuilds of other locos and have also built my own boilers plus some for other club members, 16 in total, all copper. I bought the castings for the BR Std 2 in 1985 and collected these from Don Young when he was visiting the Ascot club before it moved to the race course. A long term project, it required a lot of research and photographs. Thankfully, in this period of preservation, access was a lot easier than it is today. Where today would we be allowed to climb all over

challenge to get the detail correct and to give it an accurate look. The smaller copper pipes were $\frac{3}{8}$ inch in full size, and the larger ones $\frac{3}{4}$ inch. At approximately 0.088 to the inch in this scale, it was a challenge to find the correct size looking copper. The smaller one is from multi-strand copper wire and the larger one is cable core from a TV aerial.

Bolts were another issue. They are everywhere on these locomotives and finding the right size hex was a nightmare. I eventually decided to buy standard sized 10BA and 12BA bolts and machine the heads down to $\frac{3}{32}$ for the 10ba and 0.080 in. for the 12BA. I also made some stainless 12BA for the manifold bolts - plus spares for my next loco!

When building the boiler, I had to decided what extras were needed before commencing construction, i.e. extra bushes for a second gauge glass, where to mount a pressure gauge / whistle take off, regulator mounting pad, etc, and none of these extras affected the design of the boiler. Axle pumps - love them or hate them - I decided to fit twin pumps so had to fit eccentrics to the axle very early on, with a drop ash pan instead of fixed, and a cover over the rear axle to prevent ash ingress. All these details and modifications created problems in construction later on but to a model engineer, that is what the challenge is all about.





Federation Trophy & Polly Model Engineering Prize

Entry Form

Aim: To encourage young people to participate in the hobby of model engineering, to acquire relevant engineering skills and a knowledge of appropriate materials.

Participation: The award is open to any young person aged under 24 at the time of entry. The judging of entries will be age-relevant, meaning that younger entrants will be at no disadvantage to their more mature and experienced peers.

Nomination: Nominations are invited by any Club or Society affiliated to the Federation of Model Engineering Societies. The Nominee must be an active member of that Club or Society.

Skills: The Nominee must have demonstrated the acquisition of skills in the use of appropriate materials, metalworking hand tools and/or machinery/equipment by producing a model of any type or form, any other mechanical item or a piece of workshop tooling associated with the hobby of model engineering, whether complete or part-built, and constructed using metalworking hand tools or equipment normally found in the home, school, Club or Society workshop. Supervisory input and items built as apprentice pieces in a training environment are acceptable. The work shall be the nominee's own but normally acceptable commercial fittings, fixings, fastenings or other components may be used.

Club Activities: It is important that the entrant is well-rounded in the hobby of model engineering and so the participation in club/ society activities will be assessed as a part of the judging process.

Judging: Nominations are judged and awards are agreed by the Committee of the Federation of Model Engineering Societies, with approval from the proprietors of Polly Model Engineering Limited. Their decision is final.

The Winner: The winning entry will receive a cash prize and a trophy donated by Polly Model Engineering Limited and the Federation of Model Engineering Societies (which shall be retained by the winner). Further cash prizes will be awarded to runners-up.

Award Presentation: The award will normally be presented at an Annual General Meeting of the Federation of Model Engineering Societies at which representatives of the winner's family and Club or Society are welcome to attend. The AGM typically takes place during March each year.

Entry Forms: Completed nomination forms must be sent to the FMES Secretary, 18 Wakefield Way, Nether Heyford, Northampton NN7 3LU to arrive no later than 31st December 2022. Alternatively, they may be scanned and sent in Adobe Acrobat (PDF) format to: secretary@FMES.org.uk

The Committee of the Federation of Model Engineering Societies acknowledges with gratitude the generous support provided by Jayne & Andy Clark of Polly Model Engineering Limited in promoting this award.



FEDERATION TROPHY & POLLY MODEL ENGINEERING PRIZE

Entry Form

To Be Completed by the NOMINEE (Please Print)

Name of FMES Affiliated Club or Society:

Name of Entrant:

Name of Parent or Guardian (if under 18):

Date of nomination:

Age at date of nomination:

Home address:

Telephone*:

Email*:

Signature:

*These should be the contact details of a parent or guardian if the nominee is under 18 years of age

To Be Completed by the SPONSOR (Please Print)

Name (please print):

Position held in Club or Society:

Home address:

Telephone:

Email:

Signature:

Additional Information

1. Please supply a summary of the Nominee's relevant project(s) completed and/or in hand.
2. Please supply photographic evidence and state to what extent the Nominee's work has been completed unaided or produced under guidance - please note that supervision is acceptable.
3. Please supply a summary of the Nominee's involvement in Club or Society activities.

Items 1 and 2 above may be supplied by the nominee, for example in the form of a 'Portfolio', with separate comments added by the sponsor (e.g. to state to what extent the Nominee's work has been completed unaided or produced under guidance). Item 3 should be provided by the sponsor. Material may be provided electronically, in the form of an Adobe Acrobat PDF file, or on paper or a combination of the two.

Federation of Model Engineering Societies Newsletter

Federation of Model Engineering Societies Committee

President	Brent Hudson
Vice President	Mike Chrisp
Vice President	Ivan Hurst
Chairman	Bob Polley
Secretary	Peter Squire
Treasurer	David Goyder
Newsletter	TBA
Vice Chairman & Membership Secretary	Paul Naylor
Boiler Registrar	David Mayall
Safety Officer	Robert Walker

INSURANCE CLAIMS AND INCIDENTS

All claims and reports of incidents should be notified in the first instance to Walker Midgley
FEDERATION INSURANCE BUSINESS Managed by Walker Midgley Insurance Ltd
. Committee members' contact details can be found on the Federation MES web site

www.fmes.org.uk

Publications Available from Federation of MES

The FMES publications listed below are available from our stand at rallies and exhibitions or by post from David Mayall. Please make contact first by phone or email to get combined postage costs when ordering more than one item. (See note below). The figures shown here are for single items only. Please make cheques payable to 'Federation MES' or use BACS to Sort Code 20-71-82 Acct 43755967.

Title	From Our Stand
Examination & Testing of Miniature Steam Boilers BTC 2018 - Orange Book	Free
Vol 1, 3 bar litres to 1100 bar litres.	
Vol 2 under 3 bar litres.	
Vol 3 LPG tanks under 250 ml.	
Boiler Test Certificates - Pad of 50	FREE*
Written Scheme of Examination - Pad of 50	FREE*
Small Boiler Test Certificate - Pad of 50	FREE*
Boiler History Record Card - Pack of 10	£3.50
Plastic wallets to hold certificates size A5	£0.75
HS 2020 Passenger-carrying min railways 'Guidance' post included.....	£4.00

David Mayall

Tel: + 44 1252 684 688

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* These publications are issued free of charge to fully paid up member Clubs and Societies ONLY, and are NOT available for general sale. For delivery by mail, the cost of postage and packing is £5.00, and must be borne by the Club/Society placing the order.