



MIDLANDS MODEL ENGINEERING EXHIBITION

FREE SHOWGUIDE



THE SHOW FOR MODEL ENGINEERS

Welcome to yet another superb display of model engineering in all its fascinating variety. With hundreds of models of locomotives, rolling stock, traction, stationary and hot air engines, boats etc. plus workshop equipment and clocks – virtually every interest is represented.

Now in its 41st year, the exhibition presents a fascinating display for your enjoyment, with nearly a thousand models on over 35 club and society stands.

We also have a wide range of specialist suppliers with over 50 companies represented, so in addition to viewing the model displays you'll be able to purchase virtually anything you might need for your modelling activities. Whatever you require, be it lathes, milling machines or machine tools, castings, materials, cutting tools and other necessities you'll find a wide selection, giving you the opportunity to compare and decide on the best for your needs. We also have a lecture programme with a range of different subjects, giving something of interest for every visitor.

In addition to the hundreds and hundreds of models, outside the exhibition hall the model steam road vehicles and a miniature railway will be in action for your enjoyment.

We hope that you enjoy your visit and thank you for joining us. Each year sees thousands of visitors enjoying THEIR exhibition, meeting old friends and making new acquaintances. We hope that with your support this continues for many years to come.

Chris Deith
Exhibition Director

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THURSDAY 18th to SUNDAY 21st OCTOBER 2018

Thursday - Saturday: 10am-5pm

Sunday: 10am-4pm

Last admission 1 hour before closing

WARWICKSHIRE EVENT CENTRE

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Stand: 55

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W: www.whotzhot.info
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Stand: S4

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W: www.bowandeuse.com
Live Steam Models.
Stand: 82

80TH ANNIVERSARY OF THE "MALLARD" SPEED RECORD
On various club stands

2018 marks the 80th anniversary of the World Speed Record for a steam railway locomotive which was set by the LNER's "Mallard" which reached a speed of 126 miles per hour (203km/h).
The record was achieved on 3rd July 1938 on the slight downward grade of Stoke Bank south of Grantham on the East Coast Main Line, and the highest speed was recorded at milepost 90¼, between Little Bytham and Essendine.

GORDON SMITH 1934-2018
Stand: H

Gordon had been a member of the Burton upon Trent Society for almost 50 years. During this time he built some very fine models, four of which you will see here. The Bass tank engine and the Talylyn engine were built to scale by measuring the full size engines, as was the Trevithick engine. He was always there for any advice and help with problems and anything to do with Model Engineering. He also, for many years gave talks at this very exhibition.

RAF 100 ANNIVERSARY
Stand: B

2018 marks 100 years of the Royal Air Force and we are very pleased to have the Large Model Association represented at the exhibition this year. They have brought along a fabulous Avro Lancaster which you can see by the main entrance.

VISITOR INFORMATION

CASH MACHINE: This is located at the exit door to the lecture theatre next to stand 89.

EXHIBITION BUS LINK: Service on Thursday, Friday and Saturday. (No Service Sunday)

From Royal Leamington Spa Railway Station – on the main road directly outside the entrance to the station; 9:15, 9:45, 10:15, 10:45, 11:15, 11:45, 12:15, 12:45 lunch 14:00, 14:30 then as needed

From the Warwickshire Event Centre – from the front of the car park at the end of the walkway; 12:30, 13:00 lunch 14:15, 14:45, 15:15, 15:45, 16:15, 16:45, 17:15

Fares are £3.00 Each Way. 35 seats available.

FIRST AID: If you require first aid please see any member of our security staff or go directly to the first aid room which is situated at the foot of the stairs to the restaurant.

LOST PROPERTY: Please go to the organisers' office at the main entrance or see any member of our security staff.

ORGANISERS' OFFICE: Located by the main entrance.

PLACES TO EAT AND DRINK: Restaurants are available in both halls. Hall 1 has a first floor restaurant whilst Hall 2 has event catering.

TOILETS: Ladies and Gents facilities are located underneath the mezzanine in Hall 1 and outside behind Hall 2. There is also a disabled toilet at the end of Hall 1.

OPENING TIMES: Thursday – Saturday: 10.00am – 5.00pm, Sunday: 10.00am – 4.00pm (Final Admissions 1 hour before closing)

Should you require any assistance whilst at the exhibition, please contact either the organisers or a member of the security team or go to the main entrance.

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All printed information correct @ 09.10.2018 but subject to change due to circumstances beyond our control.

WORKSHOPS

COVENTRY MODEL ENGINEERING SOCIETY WORKSHOP

Sponsored by Chester Machine Tools, the Coventry MES will be working on elements of a steam locomotive to operate on their newly constructed 16mm scale track at their site.

They will be demonstrating machining principles and they will answer any questions you may have.

ENGINEERING IN MINIATURE WORKSHOP

In the workshop at this year's exhibition there are a range of topics being covered including; Derek Brown (Tool Sharpening and Steam Injectors), Alan Savelio (CNC Lathe) and Noel Shelley (Pattern and Mould Making). Make sure you pop along and ask them any questions you have.

DEREK BROWN

Workshop Work: A demonstration of tool sharpening including drills; also steam injectors and the tools to make them.

Based in Rutland for over 30 years, Derek Brown has been intrigued with model engineering since a schoolboy, keen on locomotives in 00, 0, 3½", 5" and 7¼" gauges and also very interested in the development of tooling and perfecting methods and techniques. He has made many contributions to the model engineering press and has travelled the country giving talks to model engineering societies. A keen, but lapsed, pianist and repairer of church clocks, Derek is perhaps best known for his work on drill sharpening and metric screw cutting and not least for the books he has published, including the latest one on injectors.

ALAN Savelio

Workshop Work: CNC lathe demonstrations to highlight the lathe's versatile capabilities and distinct advantages over using manual lathes.

Based in Nottinghamshire for many years, which is also the birthplace of the Myford lathe, Alan has always taken a keen interest in engineering and experimental design.

A passion for new technologies has motivated Alan to develop a CNC conversion kit for the Myford Super 7 lathe which is unique and has not been based on anyone else's design. It was heralded as an "Incredible piece of equipment" by Myford's own marketing team at Beeston in Nottingham.

He is looking forward to answering many questions; so, don't be afraid to ask him. He is also hoping to try out your machining suggestions which should be fun too!

Alan now has a growing popularity through his YouTube channel 'cncyourmyford' that shows many useful applications that model engineers and designers could use a CNC Myford lathe for, including loco wheel profiling, axle turning and also multi-start threading to name but a few.

NOEL SHELLEY

Workshop Work: Pattern and Mould Making

As a teenager Noel played with lead, melted in a bean tin on a fire in the garden. It must have been a catering size tin as he cast what could pass for a cannon ball. Then his interest lay dormant for many years as he worked in various fields of engineering and, in a bet which some would say he lost, ran a small waste disposal business for 20 years. You would never believe the many wonderful things people throw in a skip!!!!

Having brought and read most of the books on foundry work he could find, as well as saving all sorts of bits and pieces that might come in handy to make a furnace he got a call telling him of a fellow near Norwich who was selling all one needed to get started in producing your own castings. This first furnace was affectionately christened "puff". It was a fearsome fire breathing beast.

By now the large collection of bits and pieces of all types were arranged in an orderly fashion and by Sunday evening they had become an extremely efficient and fast crucible furnace. The main components came from a washing machine, a spin dryer and a vacuum cleaner.

Outside Demonstration: Running The Furnace

Noel Shelley will be returning to the Midlands Model Engineering Exhibition this year with his ever popular live furnace demonstration. This is taking place on Thursday, Friday and Saturday between 1pm and 2pm in the main outdoor exhibit area.

OUR LECTURERS & LECTURES

We are very pleased to be able to present for your enjoyment a very full lecture programme. Below are details of our lecturers and what they will be presenting for your enjoyment. All lectures take place in the lecture theatre which can be found at the rear of Hall 1, please exit the building by the rear door next to the cash machine.

DEREK BROWN 3D modelling

The lecture considers the principles behind 3D modelling and how it differs from the traditional CAD process. The method is different from beginning to end and consequently gives rise to all sorts of problems, some of which might be foreseen but others which take the user by surprise.

It is a brilliant concept but for certain applications can be the biggest time-waster known to man. Comparisons are made between the mental torture which has to be endured in both processes and it is hoped that the session will stimulate interest and curiosity in the systems available. Derek will also offer his thoughts on the opportunities that there are for time saving by sending the 3D models direct for machining. Derek will also be in the workshop for hands on advice.

JOHN FARMER AND JOHN MOORHOUSE, THE MUSICAL BOX SOCIETY OF GB. Automata and Mechanical Music – issues of design and restoration.

Model engineers have workshops equipped to work on various mechanical project and models. This talk will illustrate a variety of performing mechanical pieces such as automata, singing birds and mechanical music. It will show examples of design and also include various aspects of restoration of antique and collectible items, all within the scope of the modellers workshop.

ANGUS FRENCH + PATRICK HENDRA Youngsters in Model Engineering

This a real fun demonstration/talk. Patrick will introduce the Eastleigh Young Engineers (aged between 11 and 18) and then hand over to Angus. Angus will introduce the younger members who will tell you all about what they are making, how their models work and then demonstrate them. Angus will then tell you about his latest creations.

Patrick will wind up with some thoughts on Junior Members in our Clubs and D&T in the Schools. Many of the youngster's models are in the Competition Section of the exhibition.

KEITH HALE Silver Soldering - A Simple Process Made Difficult

Craftsmen have been profiting from the benefits of brazing for over 5000 years. It is a simple process if you stick to the basic principles. The aim is to explain these and help develop your skills. Find out why you are successful or otherwise from this informal, audience led, talk. There is over 120 years of silver soldering experience on offer from the CuP Alloys team.

NOEL SHELLEY Setting up and running a small scale foundry for model engineers

This lecture will look at everything you need to set up your own furnace, the construction of the furnace and all the equipment you need. Noel will also be in the workshop for hands on advice.

PETER STEVENSON Some thoughts on shaping sheet metal

Peter will be presenting a lecture on shaping sheet metal and has vast experience of forming metal by shrinking and stretching. He has made many parts for the Collett safety valve – make sure you go along and gain from his invaluable experience for your own projects.

PETE THOMAS(Prof) POLLY MODEL ENGINEERING LTD Kit Built Steam Locos

An update on Polly kit built 5" gauge locomotives and the role they continue to play in providing a way into the hobby. Pete will explain the developing range as new models such as Trojan and Molly Ann present a more prototypical image whilst building on the proven foundation of the John Clarke Polly loco designs.

Full lecture programme can be seen on the back page of this showguide.

COMPETITION & DISPLAY INFORMATION

Our Competition and Display exhibits come from wide and far and are showcased here for our visitor's enjoyment.

Judging will take place during the morning of Thursday 18th October.

Our Judging panel consists of; John Cox, Ken Daniels, Terry Morris, Neil Simkins, Norman Smedley, John Arrowsmith and David Hulse.

The prize winners will be notified so that they can attend the presentation ceremony, which will take place on **Sunday 21st October at 2.00pm.** Certificates for 1st, 2nd, 3rd and Highly Commended etc, will be issued as appropriate and award notices placed beside the winning models.

In total there are 16 classes which are divided into two sections:

Competition: which will be judged by acknowledged experts where trophies & shields will be awarded along with cash prizes where applicable.

Display: for exhibitors wishing to display their work, finished or unfinished. We welcome part built models as visitors enjoy seeing work in progress and viewing the detail not visible once completed.

Class	Trophy
Class 1 – Locomotives – up to & including gauge 1	
Class 2 – Locomotives – 2½" & 3½" gauges	The Clarkson Cup
Class 3 – Locomotives – 5" & 7¼" gauges & above	The Reeves Challenge Cup
Class 4 – Rolling Stock etc. any gauge	The Burton Rose Bowl Cup
Class 5 – Stationary Engines	Phoenix Precision Paints Trophy
Class 6 – Steam Road Vehicles	Static: Staffordshire Joinery Cup In Steam: The Leonard Crane Steam Trophy
Class 7 – Machine Tools & Workshop Equipment	The TEE Publishing Cup
Class 8 – Internal Combustion Engines	The Engineering in Miniature Trophy
Class 9 – Horological, Scientific & Automata	The Clockmaker Trophy
Class 10 – Marine Models – scale (over 50% scratch built)	The Marine Challenge Cup
Class 11 – Marine Models – kit (standard or modified)	The SHG Marine Cup
Class 12 – Model Horse Drawn Vehicles	The Lenham Pottery Trophy
Class 13 – Scale Aircraft Models	The Variscale Cup
Class 14 – Young Engineers Award (under 20 years old)	The Stuart Models Shield A year's subscription to <i>Engineering in Miniature</i> will be awarded to 1st Prize, 2nd Prize and 3rd Prize winners in Class 14, Young Engineer in addition to the prize money.
Class 15 – Miscellaneous	
Class 16 – Hot Air Engines	

The Society Shield

To be awarded annually to the club or association which is regarded by its peers to be the most interesting and also the most attractively presented stand. This will be announced at 4pm on Thursday 18th October.

All trophies are awarded annually and are retained by the winner for a period of one year.



18th ANNIVERSARY
THE MODEL RAIL SHOW FOR LARGER GAUGES
MIDLANDS GARDEN RAIL SHOW
0 GAUGE, G SCALE, GAUGE 1, 16MM & MORE...



Sponsored by **ENGINEERING in Miniature** and **GARDEN Rail**

SATURDAY 16th & SUNDAY 17th MARCH 2019
Open 10am – 4pm Daily Last admission 1 hour before closing

WARWICKSHIRE EVENT CENTRE

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Organised by Meridienne Exhibitions Ltd



International MODEL BOAT SHOW Featuring **TAMIYA TRUCKIN**

MODEL BOATS AT THEIR BEST!



FRIDAY 9th to SUNDAY 11th NOVEMBER 2018
Daily 10am – 4pm Last admission 1 hour before closing

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www.modelboatshow.co.uk

Organised by Meridienne Exhibitions Ltd

OUTSIDE ATTRACTIONS

Outside the main exhibition halls we welcome again our Fosse Way Steamers. Each year these exhibits are in steam for your enjoyment with their wide selection of engines on display. Make sure you catch the daily parade at 2.00pm on Thursday, Friday and Saturday and at 1.00pm on the Sunday. At all other times walk along and meet the owners. There are also some great static displays to see including a saw bench which was very popular last year. The range of exhibits include;

No	Owner	Entry
1	Tony Baldwin	4" Scale Foster DCC Traction Engine "Shirley B"
2	Ken Wood	4" Scale Burrell Traction Engine "Victory"
3	Paul & Sue Riley	4" Scale Foster Agricultural Engine "Heather"
4	Paul & Sue Riley	6" Scale battery powered Landrover Series 1 SWB
5	Peter Spikings	3" Scale Foster DCC Showmans Engine "Millierose"
6	Phil Scarborough	4" Scale Garrett Traction Engine "Lady Lucy"
7	Christine & Victoria Burton	4½" Scale Burrell Agricultural Engine "Victoria"
8	Anthony Batting	4" Scale Foster Agricultural Engine "Lilian"
9	Anthony Batting	4" Scale Ransomes Baler
10	Ann McCorkell	3" Scale Aveling & Porter Traction Engine "Lady Patricia"
11	Ann McCorkell	6" Scale Series 1 Landrover
12	Peter & Margaret Dobbin	4" Scale Clayton Steam Wagon "Forest Princess"
13	Richard Kew	6" Scale SD Ruston Proctor "Mary G" with a 6" Timber Trailer
14	Richard Kew	6" Scale Rack Saw "Little Will It Cut It"
15	Richard Kew	4" Scale Saw Bench
16	Dave Oliver	3" Scale Burrell Traction Engine "Margaret Rose"
17	Stephen Lee	4" Scale Foster Agricultural Engine

Our Fosse Way Steamers are sponsored by Signal Fuels. See them in the car park to buy your fuels.

The Coventry Society of Model Engineers will also be presenting the 5" Gauge Track for passenger rides in association with the Polly Owners Club.

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www.sevenandaquarter.org

10¼" GAUGE SOCIETY

Stand: C
Aidan Favell
www.tenquarter.org

BIRMINGHAM SOCIETY OF MODEL ENGINEERS

Stand: K
Stephen Harrison
www.birminghamsme.com

BLACKHEATH MODEL POWERBOAT CLUB

Stand: I
Phil Abbott

BROMSGROVE SOCIETY OF MODEL ENGINEERS

Stand: R
Peter Maybury
www.bromsgrovesme.co.uk

BURTON UPON TRENT MODEL ENGINEERING SOCIETY

Stand: G
Len Cook
www.burton-upon-trentmes.org.uk

CITY OF OXFORD SOCIETY OF MODEL ENGINEERS

Stand: E
Ron Head
www.cosme.org.uk

COVENTRY MODEL ENGINEERING SOCIETY

Stand: L
Mike Sweatman
www.coventrymes.co.uk

EREWASH VALLEY MODEL ENGINEERING SOCIETY

Stand: KK
Bernard Marsh
www.ewr.org.uk

GAS TURBINE BUILDERS ASSOCIATION

Stand: DD
James Hill
www.gtba.co.uk
Outside display will take place at
Thu-Sat: 11am, 2.30pm & 3pm
Sun: 11am & 12.30pm

GAUGE 1 MODEL RAILWAY ASSOCIATION

Stand: A
Mick Mumford
www.g1mra.com

GAUGE 3 SOCIETY

Stand: HH
Edward Sadler
www.gauge3.org.uk

GUILD OF MODEL WHEELWRIGHTS

Stand: LL
Brian Young
www.guildofmodelwheelwrights.org

HEREFORD SOCIETY OF MODEL ENGINEERS

Stand: GG
Wally Sykes
www.hsme.co.uk

IC ENGINE BUILDERS GROUP

Stand: QQ
Mike Cole

KINGSBURY WATER PARK MODEL BOAT CLUB

Stand: EE
David Kennedy
www.kwpmc.co.uk

KNIGHTCOTE MODEL BOAT CLUB

Stand: II
Chris Moir
www.kmbcmmodelboatclub.com

LARGE MODEL ASSOCIATION

Stand: B
Tony Hooper
www.largemodelassociation.com

LONDON & NORTH WESTERN RAILWAY SOCIETY

Stand: OO
Ken Wood
www.lnwr.org.uk

MELTON MOWBRAY & DISTRICT MODEL ENGINEERING SOCIETY

Stand: F
Stuart Maddison
www.mmmes.co.uk

MIDLANDS MECCANO GUILD

Stand: AA
George Illingworth
www.midlandsmecanoguild.com

MILTON KEYNES CLOCK CLUB

Stand: D
David Fieldhouse
www.bhi.co.uk

MODEL STEAM ROAD VEHICLE SOCIETY

Stand: PP
Peter Redfean
www.msrvs.co.uk

NATIONAL 2½" GAUGE ASSOCIATION

Stand: J
John Baguley
www.n25ga.org

NORTHAMPTON SOCIETY OF MODEL ENGINEERS

Stand: JJ
Leslie Spikings
www.nsmes.org.uk

NORTHERN ASSOCIATION OF MODEL ENGINEERS

Stand: M
Alan Budd
www.normodeng.org.uk

NOTTINGHAM SOCIETY OF MODEL & EXPERIMENTAL ENGINEERS

Stand: FF
Chris Ball
www.nsmee.org.uk

REMAP (COVENTRY & WARWICKSHIRE)

Stand: NN
Robin Kenward
www.remap.org.uk

SOCIETY OF MODEL & EXPERIMENTAL ENGINEERS

Stand: P
Ralph Thompson
www.sm-ee.co.uk

SOUTHERN FEDERATION OF MODEL ENGINEERING SOCIETIES

Stand: S
Ivan Hurst
www.southernfed.co.uk

STEAM APPRENTICE CLUB

Stand: MM
David Hurley
www.ntet.co.uk/sac

STEAM BOAT ASSOCIATION

Stand: Q
Andrew Hopper
www.steamboat.org.uk

STIRLING ENGINE SOCIETY

Stand: O
Graham Sheard
www.stirlingengines.org.uk

WOLVERHAMPTON & DISTRICT MODEL ENGINEERING SOCIETY

Stand: BB
Martin Bedson
www.wolverhampton-dmes.net

CELEBRATIONS AND SPECIALS

GORDON SMITH DISPLAY
Stand: H

80TH ANNIVERSARY OF THE MALLARD WORLD SPEED RECORD
Stand: Various Club Stands

RAF 100 ANNIVERSARY
Stand: B

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A GREAT DAY OUT FOR ALL AGES

Great Hall, Alexandra Palace, London

10am - 5pm Friday & Saturday
10am - 4.30pm Sunday

Last entry Friday & Saturday 4.00pm Sunday 3.00pm.
The Model Active Zone will close at 3.30pm on Sunday.

NEW FEATURE 2019 THE MINISTRY OF STEAMPUNK
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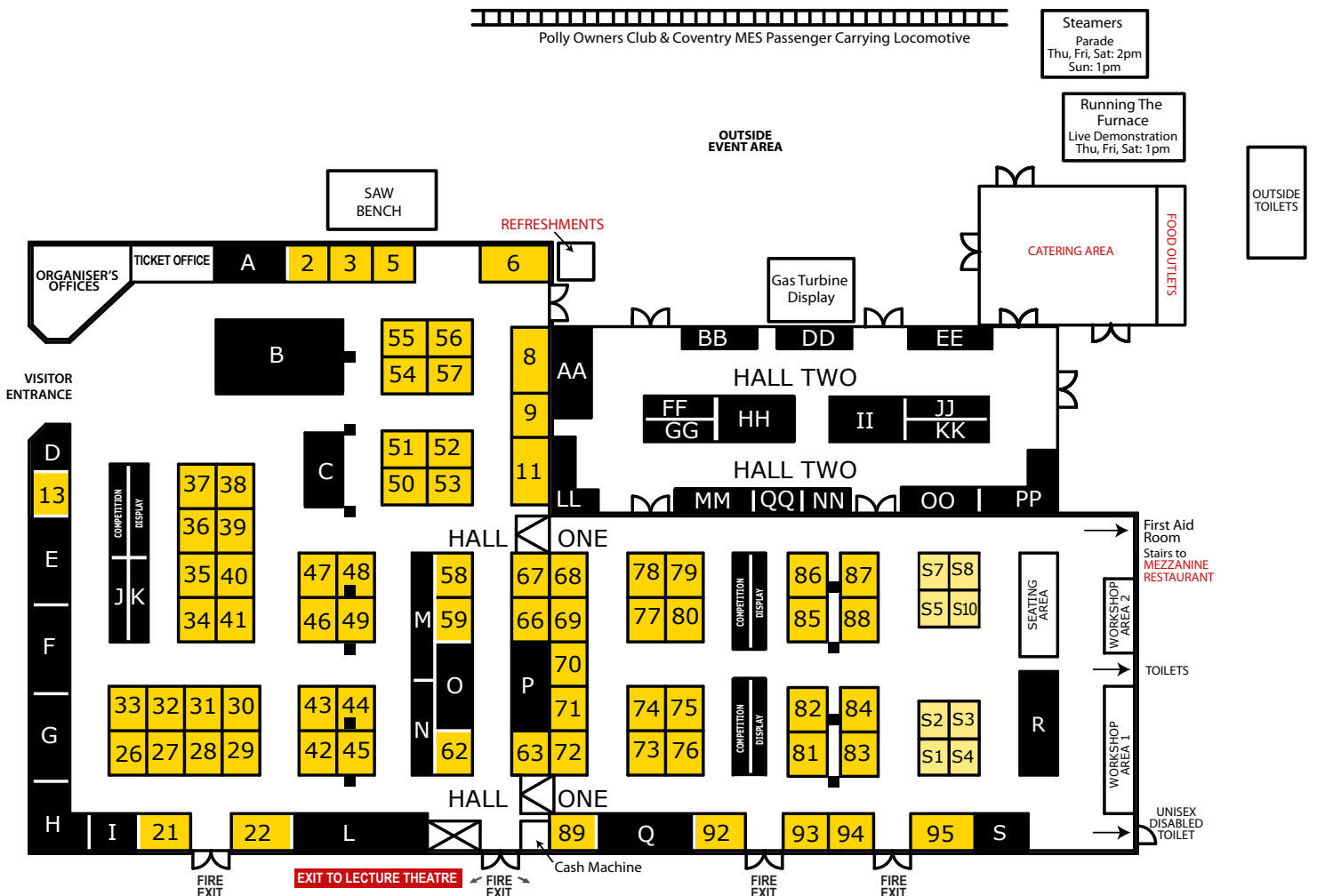
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FLOOR PLAN



List of Specialist Suppliers

17D Miniatures	89	Fivestar	49	PNP Railways	77
Abbots Model Engineering	6	Greenwood Tools	54	RDG Tools	26-33
Aerospace Surplus Trader	73	GS Model Supplies & Western Steam	92	Silver Crest Models	68+69
Allendale Group	74+75	Hafix Industrial Products	76	Solder Connection	53
Alutight/Permagrit	81	HJH Tooling	58	Station Road Steam	93+94
Axminster Tools and Machinery	87+88	Home and Workshop Machinery	79+80	Stuart Models	44+45
BB Engineering Services	51+52	JB Cutting Tools	48	Tee Publishing	66+67
Beugler Paint Pinstriping Tools	57	JLD Fittings	S10	The Craftlight Company	58
Blackgates Engineering	85+86	K2 Engineering Services	5	The LMS Patriot Company	52
Cartell-UK	21	KM1 Modellbau E.K	83+84	Tracy Tools	70-72
Chester Machine Tools	95	Kontax Engineering	59	Transwave Converters T/A	47
Chiltern Model Steam Engines	55	LE Tonkinois Varnish (D A & B E Murkin)	63	Power Capacitors	
CNC4YOU	56+57	Live Steam Models	62	Triple X Trading	3
College Engineering Supply	22	Model Engineers Laser	78	Turbotrade UK	51
CuP Alloys (Metal Joining)	2	Myford	42+43	Walker Midgley Insurance Brokers	13
EMS (International)	46	Noggin End Metals	55	Warren Machine Tools (Warco)	34-41
Engineers Emporium/ L. A. Services	50+53	Polly Model Engineering	8-11	Whotz Hot	54
				Wuhu Brand Arts & Crafts Co	82

Society Stands, Clubs and Demonstrations

7/4" Gauge Society	N	IC Engine Builders Group	QQ	REMAP (Coventry & Warwickshire)	NN
10 1/4" Gauge Society	C	Kingsbury Water Park Model Boat Club	EE	Society of Model & Experimental Engineers	P
Birmingham Society of Model Engineers	K	Knightcote Model Boat Club	II	Southern Federation of Model Engineering Societies	S
Blackheath Model Powerboat Club	I	Large Model Association	B	Steam Apprentice Club	MM
Bromsgrove Society of Model Engineers	R	London & North Western Railway Society	OO	Steam Boat Association	Q
Burton on Trent Model Engineering Society	G	Melton Mowbray & District Model Engineering Society	F	Stirling Engine Society	O
City of Oxford Society of Model Engineers	E	Midlands Meccano Guild	AA	Wolverhampton & District Model Engineering Society	BB
Coventry Model Engineering Society	L	Milton Keynes Clock Club	DD		
Erewash Valley Model Engineering Society	KK	Model Steam Road Vehicle Society	PP		
Gas Turbine Builders Association	DD	National 2 1/2" Gauge Association	J	SPECIAL DISPLAYS	
Gauge 1 Model Railway Association	A	Northampton Society of Model Engineers	JJ	Gordon Smith Display	H
Gauge 3 Society	HH	Northern Association of Model Engineers	M	80th Anniversary of the Mallard World Speed Record	Various Club Stands
Guild of Model Wheelwrights	LL	Nottingham Society of Model & Experimental Engineers	FF	RAF 100 Anniversary	B
Hereford Society of Model Engineers	GG				

Lecture Programme

Thursday 18 th October			
Time	Lecture Topic	Presented	Location
11.00am	Some Thoughts on Shaping Sheet Metal	Peter Stevenson	Lecture Room
12.00pm	3D Modelling	Derek Brown	Lecture Room
1.00pm	Silver Soldering - A Simple Process Made Difficult	Keith Hale	Lecture Room
1.00pm	Running The Furnace LIVE DEMO	Noel Shelley	Outside Event Area
2.00pm	Automata & Mechanical Music - issues of design & resoration	John Farmer & John Moorhouse, The Music Box Society of GB	Lecture Room
Friday 19 th October			
11.00am	Some Thoughts on Shaping Sheet Metal	Peter Stevenson	Lecture Room
12.00pm	3D Modelling	Derek Brown	Lecture Room
1.00pm	Silver Soldering - A Simple Process Made Difficult	Keith Hale	Lecture Room
1.00pm	Running The Furnace LIVE DEMO	Noel Shelley	Outside Event Area
2.30pm	Setting Up & Running a Small Scale Foundry for Model Engineers	Noel Shelley	Lecture Room
Saturday 20 th October			
11.00am	Kit Built Steam Locos	Pete Thomas (Prof), Polly Model Engineering Ltd.	Lecture Room
12.00pm	3D Modelling	Derek Brown	Lecture Room
1.00pm	Silver Soldering - A Simple Process Made Difficult	Keith Hale	Lecture Room
1.00pm	Running The Furnace LIVE DEMO	Noel Shelley	Outside Event Area
2.30pm	Setting Up & Running a Small Scale Foundry for Model Engineers	Noel Shelley	Lecture Room
Sunday 21 st October			
11.30am	Youngsters in Model Engineering	Angus French & Patrick Hendra	Lecture Room
2.00pm	PRESENTATION OF AWARDS		Lecture Room