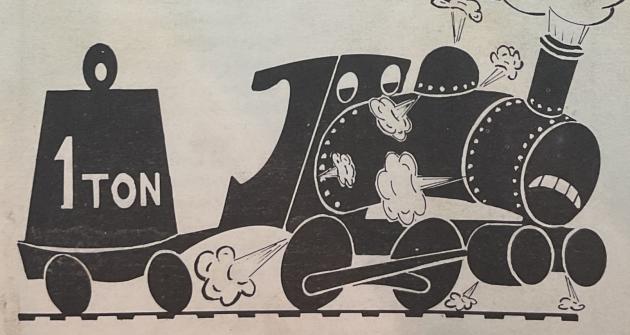
INVER & WEST MIDLAND S.M.E.L.T.

L. C.



Programme

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"THE SPIRIT OF I.M.L.E.C."

Ever since the start of man's adventure with the steam locomotive the competition has been high in respect of one man's fiery beast outdoing another.

The first tests were quite simple, which ever locomotive managed to pull the largest load was deemed to be the winner regardless of how much fuel it used in doing it.

Things have come a long way since those early days so much so that man's inquisitiveness in finding out the best way to do things has meant the end of steam traction on British Rail.

It is probably because of the untimely death of the steam locomotive that model engineering is becoming more popular and one only has to look at the faces of the spectators to realize that a strange attraction still exsists between a living breathing steam locomotive and anyone anywhere near it, whether it be the full size job or one of our smaller versions. Just like the designers and builders of the real thing we are just as anxious to prove that one design is better than another and that is why I.M.L.E.C. is held. I say one of the reasons because I believe that like most other enthusiasts, steam fanatics take any opportunity to get together and have a good "chin wag" and it is through meetings like this one that inspiration is gained, whether it be to join a model engineering society for the first time or to start building that working steam model that up until now has just been a dream.

If this meeting today has aroused the competitive spirit in established model engineers or brought forward an exchange of ideas and techniques, or just brought back memories of a bygone age to the spectator then this to me is the spirit of I.M.L.E.C. "Long may it continue."

ALAN HARRIS,

I.M.L.E.C. Chairman

I.M.L.E.C. 1976

Ladies and Gentlemen,

I would like to extend to you a warm welcome from the Committee and myself on behalf of all members and hope you enjoy todays proceedings.

You may be interested in the origins of this Society so here is a brief history of how it all began and how we have developed into the present day Society.

Back in the 1920's a group of men interested in Boats and Steam Locomotives formed themselves into the West Midlands M.E.S. whose headquarters were at Kingswinford, near Stourbridge. They built a 3½" gauge track around an existing pool and activities continued there until the Second World War.

Several members lived in Wolverhampton and because of travelling difficulties formed an allied group which was known as the West Midland Model Engineers, Wolverhampton Branch. They held their meetings in Wolverhampton Library and sometimes at members homes. At a meeting in Wolverhampton Library in May, 1943, it was proposed and accepted that the Society became the Wolverhampton Model Engineering Society and continued to operate as such, despite poor membership, until 1951. A multi gauge track, 600ft. in length was built and operated from 1946 at the rear of 'The Mount Pleasant' Inn, Wombourne, until 1961.

However, in 1951, under the guidance of the Secretary, Mr. B. Princep, the Society formed itself into a Limited Company and was known as the Wolverhampton S.M.E. Ltd. The reason for this change was to obliviate insurance problems, which in retrospect was unique for this period as a good many Societies today are seeking to do the same.

Up to 1961 the Society flourished at Wombourne and then had to move due to the sale of the land for building purposes, and after many problems the management of the Society this time secured a 20 year lease on an acre of land here, at the Marsh Playing Fields. In 1970, as our interests now lay in Kinver by a majority vote the Society became known as the Kinver and West Midlands Society of Model Engineers Limited. The following year, 1971, the track was extended to 1,200ft. and so this brings us up to the present.

For the future it is hoped to cater for a 7¼" gauge G.L. track somewhere within our existing bounderies and we hope to have this completed within a few years.

Membership is now over a 100 strong and the Society holds regular meetings every two weeks in the winter months and every week during the summer on Fridays.

I hope that if anyone wishes to know any more about the activities of this Society they can feel free to contact myself or any of the Committee during the day, and we will do our best to answer any questions.

Thank You for your invaluable support.

P. MILES, Chairman.

LIST OF ENTRANTS FOR I.M.L.E.C.

I.M.L.E.C. 76 KINVER & WEST MIDLANDS S.M.E. LTD. MARSH PLAYING FIELDS, KINVER

Society Kinver & W.M.S.M.E.	Owner N. Sanderson	<i>Driver</i> N. Sanderson	Description of Locomotive 5"G. 4-6-0 Modified Springbok
Chingford & District M.E.C.	P. Wood	P. Wood	5"G. 4-4-0 Maid of Kent
Derby S.M.E.	S. Baker	S. Baker	5"G. 0-6-0T Eva May
South Africa	J. Love	M. Busbridge	3½"G. S.A.R. Loco
Cannock S.M.E.	M. Jeffries	M. Jeffries	3½"G. 2-6-4T Jubilee
Chichester S.M.E.	B. Green	B. Green	5"G. 4-6-0 Springbok
N. Staffs. S.M.E.	F. Nadin	Dr. J. B. Hollins	5" 4-6-0 Springbok
Wirral S.M.E.	E. V. Harrison	E. V. Harrison	5"G. 4-4-0 "City of Truro"
Keighley S.M.E.	J. S. Richardson	J. S. Richardson	5"G. 0-6-0 "Minx"
Southampton S.M.E.	W. Perrett	W. Perrett	5"G. 0-6-0 Speedy
Bristol S.M.E.E.	J. Colman	J. Colman	5"G. 4-4-0 S.E.C.R.Class 'D'
Cheltenham	M. W. Smart	M. W. Smart	5"G. 4-4-0 Midland Compound
Private	L. Joyce	L. Joyce	3½"G. 4-6-0 G.W.R. King
Rugby S.M.E.	F. G. Winsall	F. G. Winsall	5"G. 4-6-0 Torquay Manor
Chesterfield & District S.M.E.	A. H. Sell	A. H. Sell	5"G. Saddle Tank (Gwynedd)

Calculation of Results

(Note: Parameters marked * are shown on results board and can be logged on pages 8 and 9 of this programme).

The dynamometer car measures and gives a direct reading of Total Work Done* in foot pounds and Total Distance Travelled* in feet. In addition the Overall Run Time* (minutes) and Weight of Coal Used* (pounds) are recorded.

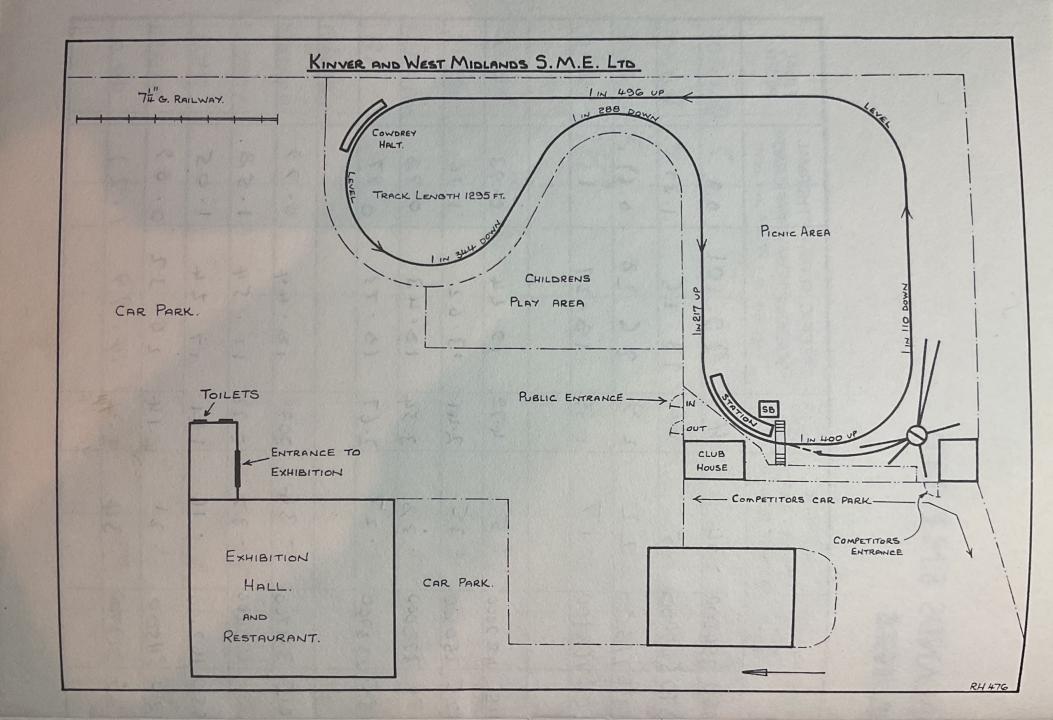
From these parameters the following calculations can be made:

	Total Work Done (ft. lb.)					
Average Draw Bar Horse Power						
	Overall Run Time (mins.) x 33,000					
	h.p					
Coal Consumption Rate = W	leight of Coal Used (lb.) x 60					
	Overall Run Time (mins.)					
Specific Fuel Consumption (SF	Ib./hr					
opecine raci consumption (3)	Average Draw Bar Horse Power					
Substituting (1) and (2) and (3):					
Weight of Coal Used (lb.) x 1,980,000					
SFC =						
Total Work Don	e (ft. lb.) Ib./D.B.H.P. hr.*					
	10., 0.0.11.1.111					
Now, Overall Thermal Efficience	Work Output x 100%					
The state of the s	Heat Input					
	the coal to 14,000 B.Th.U./lb., 1lb. of coal yield ere 778 is the number of ft. lb. per B. Th.U. 1,980,000 x 100 SFC x 14,000 x 778 %*					
	18.1785					
-	SFC					
	%*					

The locomotive which returns the highest Overall Thermal Efficiency is the winner.

KINVER & WEST MIDLANDS S.M.E. LTD. I.M.L.E.C. 1976

TYPE	GAUGE	WHEEL ARRANGE - MENT	DRIVER	SOCIETY	LOAD ADULTS	RUNNING TIME (MINS)	DISTANCE RUN (FEET)	TOTAL WORK (FT 1b)	AVERAGE DRAW BAR HORSE POWER	COAL USED	SPECIFIC FUEL CONSUMPTION (Ib/DBHP HR)	THERMAL EFFICIENCY (PER CENT)	FINAL POS'N
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hiva			10 m 20 m		7		12950	162150	. 16	1-161	17.24	1.05	
SPALWA.			311	1	10		20720	311500	. 21	4.14	26.32	0.69	
MAio			1		10		19425	329700	34	2.4	14.99	1.27	
				A Samuel Marie									



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Grateful thanks to Members Wives for their invaluable help with the task of Catering. Thanks to ERIC GRIFFITHS for the loan of his Dinometer Car and the help given by BRISTOL S.M.E.

Lastly, thanks to all K.&W.M.S.M.E. Members who participated in this, the Eighth I.M.L.E.C. without who's help it would not have been possible.

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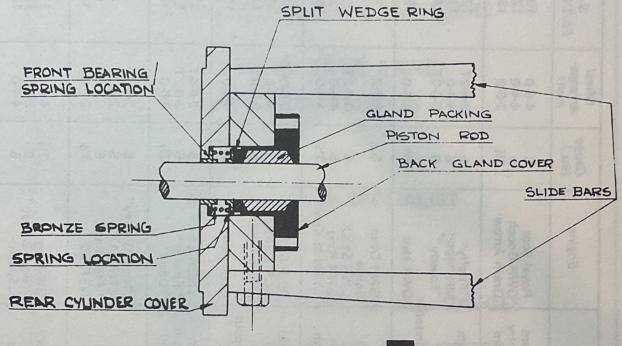
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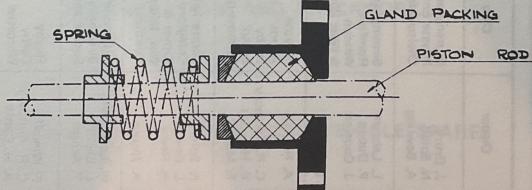
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After discussing this with my father, British Rail Western Mechanical Inspector, I attempted to construct a modified self adjusting gland arrangement, as illustrated above. It was designed for use with 1/16" graphite packing. Dimensions were lifted off the illustrations to enable the builder to adapt the principal to the many designs available today.

by R. E. J. Humphries

Previous I.M.L.E.C. Results

Year	Host Club	Place	Owner	Club	Engine	Gauge (ins.)	Wheel Arrange- ment	S.F.C. (Ib/DBHP hr.)	Efficiency (per cent)
1969	Birmingham S.M.E.	1st 2nd 3rd	J. Drury N. Spink A. Bowling	Birmingham Private Entry Cheltenham	Royal Scot GWR Gooch Green Arrow	5 5 3½	4-6-0 4-4-0 2-6-2	10.10 12.41 13.98	NOT QUOTED
1970	Whitney and West Oxford	1st 2nd 3rd	L. Labram P. Dupen J. Cousins	Birmingham Romford Wilsden & West London	"Firefly" MR "999" "Speedy"	5 5 5	2-6-2T 4-4-0 0-6-0T	12.92 13.36 14.54 15.63	NOT QUOTED
2000	S.M.E.	1st 3½"	E. Kellet	Bristol	GWR Hall	3½	4-6-0	15.05	
1971	Southampton & District S.M.E.	1st 2nd 3rd 1st 3½"	A. Heyden C. R. Amsbury G. Hawkins F. Morley	Newton Abbot Derby Bristol Portsmouth	GWR Dean Single GWR 51 XX GWR King "Maid of Kent"	5 5 5 3½	4-2-2 2-6-2T 4-6-0 4-4-0	7.99 9.98 12.53 16.27	NOT QUOTED
1972	Tyneside S.M.E.	1st 2nd 3rd 1st 3½"	N. Spink L. Bennett H. Reeve A. Jacobs	Chesterfield Chingford Kinver & West Midlands Romford	GWR 57XX GCR Director "Nigel Gresley" GWR Hall	5 5 5 31/2	0-6-0PT 4-4-0 2-8-0 4-6-0	11.04 11.95 12.86 13.81	1.06 1.05 — 1.03
1973	Chingford & District M.E.C.	1st 2nd 3rd	W. Longstaff L. Labram T. Arnott	S. Durham Birmingham Sunderland	LNER L1 "Firefly" "Doris"	5 5 3½	2-6-4T 2-6-2T 4-6-0	11.38 11.50 12.30	1.6 1.58 1.47
1974	Bristol S.M.E.E.	1st 2nd 3rd 1st 3½"	F. Winsall C. R. Amsbury A. H. Castle D. Alford	Rugby Derby Worcester	"Nigel Gresley" GWR 51XX "Freelance" NER K2	5 5 5 3½	2-8-0 2-6-2T 0-8-0T 2-6-0	7.16 8.50 .9.40 17.85	2.54 2.138 1.933 1.018
1975	T.S.M.EE	1st 2nd 3rd	L. Joyce F. G. Winsall D. W. Horsfall	Chingford Rugby Brighouse	GW King "Nigel Gresley" L.S.W.R.	3½ 5 5	4-6-0 2-8-0 4-4-0	11.71 13.06 13.42	1.552 1.392 1.355

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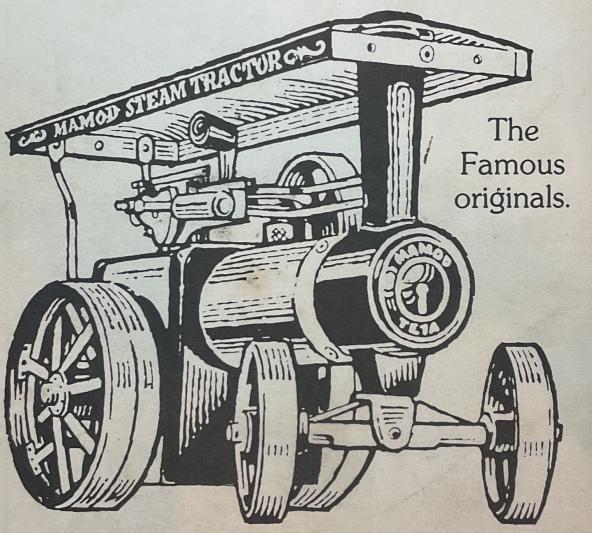
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