

# MERG Warwickshire / North Oxfordshire Area Group

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This area group was formed in Jan 2016 to serve Warwickshire / North Oxfordshire and surrounding districts although we attract members who travel from further afield to join us for our meetings.

The area group meet about six times each year for a full day at the club rooms of the Leamington and Warwick Model Railway Society [www.lwmrs.co.uk](http://www.lwmrs.co.uk).

Details of meeting dates and agenda are published in the Area Groups Section of the MERG Forum: <https://www.merg.org.uk/forum/viewforum.php?f=177>

**Mike Plowman (M5311)** is the convenor for this group who may be contacted through [wno@merg.org.uk](mailto:wno@merg.org.uk)

The group comprises skills from beginner to time served electronics engineers but all with an interest in applying electronics to model railways.

The objective of the group is to ensure that the interests of the members are served by making use of the skills and knowledge inherent in the group, drawing on skills of the subject experts and to expand our skills and knowledge through active, open participation.

The group is growing strongly with many members volunteering to present or run workshops where there is the opportunity to learn new skills in practical hands-on sessions.

[MERG Home page](#)

## Email

For non members, to send us an email, [use the MERG Area Group contact form](#)

**MERG members** may contact Mike Plowman direct via his [Profile page](#).

This Group's Sub Forum is [here](#).

## 2016 Meetings

### Jan 31st Inaugural Meeting

Twenty eight MERG members met in the Leamington and Warwick MRS clubroom for the inaugural meeting of the Warwickshire / North Oxfordshire Area Group. Although initially aimed at members living within 30 miles of the clubroom, members travelled from further afield.

**Paul King - MERG President**, entertained with a history of MERG.

**Pete Brownlow**, in his usual relaxed manner, briefed the group about CBUS and future developments.

**Chris Boxall**, a Severn Valley signalman, led a very interesting and interactive session which only skimmed the material that Chris has available.

The day closed with **Mike Plowman** describing the CBUS implementation proposed for the new LWMRS n gauge layout – Kineton.

### April 23rd

Thirty five members and guests from the host club attended the meeting held at the L&WMRS Club Rooms

The morning was dedicated to the **MERG DCC solution** with a presentation by **John Gowers** who then demonstrated and provided **hands-on** experience for the attendees.

**Tony Chamberlain**, another of our Severn Valley signalman, described how a model railway, in their training centre, is used to train signalmen. By simulating various events, such as “a brown cow on the line”, a signalman’s knowledge of the various rules can be tested in a safe environment. For the first time, the afternoon was set aside for a soldering and testing **workshop** which proved very successful.

### July 9th

Another strong attendance were treated to a presentation by **Don Upton**, assisted by **Bob Mercer**, who presented “**CBUS Live**” adding CBUS modules to a small layout to drive various accessories. The features of each module were described before being physically attached to the baseboard. Once all the modules were installed, Don proceeded to explain the facilities of **FCU/FLIM** and finished by configuring each of the modules into the network. Throughout, this was a highly interactive session with questions flying in from the surrounding audience. The room was reconfigured in the afternoon to allow informal workshops to take place: the library was buzzing with groups either discussing, questioning, watching demonstrations, building and testing kits.

### Sept 24th

The group met again at the **Leamington and Warwick MRS** club rooms.

The members were greeted with the now customary **LWMRS bacon roll** breakfast.

Proceedings started with **Judi Rastall** who had made the long journey to tell the members about the operation of the **Kit Locker**, a presentation that was well received and generated a large number of questions.

**Mike Plowman** followed with a presentation on the **Layout Control Dilemma** showing how the selection of CBUS did not require the adoption of DCC.

Finally, **Bob Mercer** gave the first of series of presentations about the use of JMRI. The live demonstration had a very positive effect on a number of members and we are looking forward to the next part of Bob's series.

After afternoon tea and cakes, the informal part of the meeting allowed members to exchange ideas and get questions answered.

### November 12th

Over 30 members congregated at the **Leamington and Warwick MRS** Club Rooms for this fifth meeting of 2016. As this was the end of our first calendar year for the WNO area group, each member reintroduced themselves to the group, restating their interests, the progress they had made in the past year and what items they would like to see included in the agenda for the coming year.

Members were also asked to contribute ideas for the **Area Group's celebration of MERG's 50 years** in 2017.

**John Russell** showed how to interpret circuit diagrams and work out what voltages to expect at various points in a circuit which was really useful when testing and fault finding modules.

**Chris Boxall** gave a very comprehensive presentation on the block signalling process on the Severn Valley Railway. This included a demonstration with three members “bell coding” each other so that a train with a token could pass from one section to another.

Due to time constraints, **Bob Mercer's** JMRI presentation was deferred to the next meeting.

For next year, it is clear that the presentation part of the meeting will need to be carefully planned so that enough time is allocated to the growing need for more **practical sessions**.

## 2017 Meetings

### January 28th 2017

Over thirty MERG members met in the **Leamington and Warwick MRS** clubroom for the first 2017 meeting of the Warwickshire / North Oxfordshire MERG Area Group.

They were welcomed with the customary, signature bacon rolls with tea or coffee prepared by the Leamington and Warwick MRS Exhibition Manager and MERG member Mike Collins. This has become quite a feature of our meetings with members arriving early to chat whilst eating their bacon rolls.

**Mike Plowman** introduced the meeting and thanked all the members who had contributed to the success of the group in its first year.

He continued by outlining the next meeting which will be held on the first Saturday of the **LWMRS Show on March 4th/5th**.

The show will feature the group's MERG@50 Celebration including a **Meet the Committee Meeting** and the cutting of the Anniversary Cake.

Following feedback from members, Mike proposed that the format for all meetings will now be two presentations in the morning with more structured, focused discussion areas in the afternoon.

**David Thomas** opened with an **RFID** presentation, a subject which had not previously been addressed in the group. David talked about the principles, the MERG offering and the availability of components from "unconventional" sources, one of which was the internals of a key fob. The sensing coils can be easily removed and can be accommodated inside an n-gauge wagon.

He went on to demonstrate, on his test track, the sensors working and, by linking to JMRI, the position of trains on the layout diagram along with their description could be displayed. But his "pièce de résistance" was the ability to use the output to drive a visual basic file providing automated announcements of the train's arrival.

This set the room buzzing during the tea break - with many of the audience enthused to discover more.

Meeting in the Leamington and Warwick Railway Club has the added advantage for the MERG members of being able to access the enormous resources of the club library.

Our resident enthusiast, **Bob Mercer** continued his "**Introduction to JMRI**" with part 2 of his talk not only talking about the function and facilities but demonstrating, on a very compact test track, automation of shunting operations using Hector position detectors, with magnet operated de-couplers. Bob is using rare earth magnets attached to a servo arm to activate the DG couplers. Again, in his usual inimitable fashion, Bob's presentation stimulated an enormous amount of interest with members discussing, over lunch, how they could implement JMRI, even if only on a small piece of their home layouts.

During lunch, the room was reconfigured to define focus areas for the afternoon. David and Bob were able to answer more detailed question about their morning presentations Whilst **Brian Flanery and Simon West** ran a clinic helping members to fault find their CBUS kits.

The new meeting format proved to be to the members liking and we will continue in this manner along with our informality, friendliness and openness which is a feature of the WNO Area Group.

### MARCH MEETING - MARCH 4th 2017 - MERG@50 CELEBRATION

The March Area Group meeting was held on the first day of the Leamington and Warwick Exhibition on **March 4th 2017**. Again over thirty members attended the meeting and were treated to two informative presentations.

**Martin Perry**, MERG Technical Support Manager and Vice Chairman gave an excellent presentation on the subject of the **The MERG Kit from Design to Availability**. This stimulated many questions both from the members and Martin. It quickly became apparent that few members understood Martin's role as the Technical Support Manager and how he could assist in the solution of issues with

kit build and test.

A 3D printing machine was quietly producing parts at the side of the meeting room whilst **Howard Watkins** presented an **Introduction to 3D Printing**. Howard explained how parts could be designed using free software and using even more free software, the part could be checked and an STL file produced to drive the printer. He explained several techniques that were required to produce large parts and how the features of the various models of printers alleviated some of the problems.

Discussions continued over a buffet lunch and it was clear that many members had been impressed and inspired by both the presentations.

**Meet the Committee**, At the Warley show last year, several Committee members agreed to participate in a **"Meet the Committee"** event. After many comments on the Forum regarding the location of the AGM, the objective of this event was to provide the members the opportunity to engage directly with the Committee.

Members within a seventy mile radius of the show had been personally invited to attend and given the option to join the WNO Area Group members for their meeting in the morning. The Committee representatives were Paul King (President), Bob Vetterlein (Chairman), Martin Perry (Vice Chairman and TSM), John Ferguson (Publicity), Nigel Phillips (Exhibitions) and Roger Edwards (Journal Production).

After a slow start, there was a wide ranging discussion of number of technical, documentation and organisational subjects. From feedback I have received, both the members and the Committee found the discussion valuable.

### **MERG@50,**

The final act of the WNO Area Group Meeting was the cutting of the Anniversary cake. It seemed such a shame to cut the MERG Logo'd cake but Bob Vetterlein, accompanied by the other Committee members, wielded the cake slice with aplomb and the cake was enjoyed by all.



### **MAY MEETING - MAY 6th 2017**

Several new members joined the thirty members at the **Leamington and Warwick MRS** clubroom for the third 2017 meeting of the Warwickshire / North Oxfordshire MERG Area Group.

They were welcomed with the customary, signature bacon rolls with tea or coffee prepared by the Leamington and Warwick MRS and MERG member **Mark Reader**. This has proved to be a useful time for members to chat before the start of the meeting and members arrive early to chat.

**Mike Plowman** kicked off the proceedings suggesting a further change to the proceedings.

**Simon West** gave a very interesting presentation on the subject of Printed Circuit Board (PCB) design and manufacture showing examples that he had created using various techniques from hand layup and photo-etching to design and manufacture using the latest CAD applications. His presentation encouraged many questions and many members came away with a clearer understanding of the

design and manufacturing process.

**David K Roberts** explained the principles of wiring the layout including wire size selection, routing and termination. He explained current carrying capacity and voltage drop considerations. This subject is quite often an afterthought but David's presentation emphasised the importance of a proper plan, colour coding and documentation.

There followed two presentations by the Chairmen of model railway clubs within the WNO area.

**Tony Moss** represented Coventry MRC <http://www.coventrymodelrailwayclub.org.uk/> and

**Alwyn Annels** represented the newly reformed Stratford and District MRS <http://www.sdmrc.co.uk/>

In addition to the workshops and demonstrations in the afternoon, two subjects that will be presented at the next meeting were previewed.

**Tony Chamberlain** previewed the sound generator which has generated an enormous amount of interest since it was written up by Davy Dick and featured in the Journal.

**Bob Mercer** previewed his work with Raspberry Pi and its application to model railways.

It is hoped that these previews will become a feature of future meetings.

## JULY MEETING - JULY 1st 2017

Almost 30 members met at the LWMRS Clubrooms for the July meeting.

After the introduction and plea for new presenters for the next meetings by Mike Plowman, **Jeremy Mole** explained how he installed DCC sound in a small n-gauge shunter. He showed, in detail, the modifications he made to the inside of the body and the chassis in order to accommodate the decoder and speaker. Jeremy then demonstrated the completed loco on a rolling road. The presentation is filed in the area group database.

**Bob Mercer** continued his series of JMRI presentations, this time covering the intricacies logix and signals. These introductory sessions by Bob have proved very popular with many more members now having an understanding of the capabilities of JMRI.

**Tony Chamberlain** showed the investigations he had conducted with regard to RFID sensors, their shape, effective detectable height and sensitivity with regard to loco speed. This session proved to be highly interactive and showed how this subject is becoming of more interest in the group with several members wants to share the data and participate in the investigations.

The workshops and informal discussions continue to be a popular part of the meetings with groups of members discussing configurations, sorting problems and acquiring new skills.

## SEPTEMBER MEETING - September 16th 2017

Thirty members again met at the LWMRS Clubrooms for the September meeting.

After the introduction by **Mike Plowman**, he thanked the members who have come forward to present and also those who are willing to participate in the "show and tell" sessions.

**David Thomas** explained explained the basic capabilities of the Arduino and showed how it could be used to accomplish several railway projects. This stimulated much discussion amongst the members and David used the demonstrators that he had prepared in the afternoon workshops where more discussion continued.

**David Radcliffe** gave the first of the show and tell presentations telling how he had participated in a "real railway" project for a television company building a railway from coast to coast in the north of

England. The many challenges encountered along the route were described along with many entertaining tales. We have to wait for the TV programme to find out whether the team were successful – Dave is sworn to secrecy.

**Tony Chamberlain** continued his presentations from the previous meeting covering his investigations into the use of stepper motors for turntables and the “sound project” which was an extension of that featured in the MERG Journal.

With both David and Tony's presentations promoting the use of Arduino, it was agreed that an **“Introduction to Arduino”** workshop would be provided for those members who wish to pursue projects with this technology.

The workshops and informal discussions continue to be a popular part of the meetings with groups of members discussing configurations, sorting problems and acquiring new skills.

## NOVEMBER 11th 2017.

On November 11th 2017, seven new members were included in the thirty two members who attended.

**David K Roberts** gave a very informative presentation about power supplies. He explained, and showed, the various types available and the principles of regulation. There was much interaction with the audience especially concerning component selection.

As the meeting was held on **Armistice Day**, the group marked the moment with a one minute's silence at the eleventh hour.

**David Thomas** showed how he had investigated the provision of “stay alive” to various DCC decoders. This is a particularly challenging in smaller scales due to the size of the capacitors required to overcome small “dead areas” on the track. This is becoming even more important with the increasing use of sound in locos. David showed the various experiments that he had conducted to increase his knowledge of this important area of application. There was much discussion around the demonstrator during the afternoon.

The workshops and informal discussions, held in the afternoons, continue to be a popular part of the meetings with groups of members discussing configurations, sorting problems and acquiring new skills.

**John Gower's** soldering workshops always attract an enthusiastic group learning or improving their skills under John's guidance. One new member commented that he was now confident to start buying kits to build.

**Bob Mercer** showed the advances he has made with an Arduino sensing the presence of cassettes in the fiddle yards of the LWMRS Kineton layout using LDR's. He then communicates the results via CBUS to the fiddle yard at the other end of the layout.

I also have offers of presentations from Kelly Harding (PiSprog) and Roger Edwards (ATBus) which will be included in the programme for next year.

## 2018 Meetings

### JANUARY 27th 2018

On the second anniversary of the formation of the **Warwickshire, North Oxfordshire MERG Area Group**, 40 members came along to **Leamington and Warwick MRS** club rooms for the first meeting of 2018. Typically, about 30 members attend the group meetings but this time, the capacity of 40 was reached giving the catering team of **Mike Collins** and **Mark Reader** a challenge first thing to provide bacon rolls for the arriving members.

The meeting featured **Ian Hogg** describing and demonstrating the multi I/O facilities of the **CANMIO**. His outstanding presentation covered all aspects of configuring the CANMIO to take advantage of multiple input, output and consuming it's own events. This was a highly interactive session with Ian taking questions from members throughout the presentation. After "elevenses", Ian showed his demonstration of a barrier level crossing and this made many aspects of configuring the CANMIO much clearer especially with regard to sequencing events.

**Paul Townsend**, the Bristol AG leader, followed with a presentation of his developing P4 Board Gauge / Standard Gauge layout which will use the multi I/O facilities of CANMIO. Paul is working with Jim Greg from the Northern Ireland on a configuration guide for CANMIO.

In the afternoon, there were a range of workshops covering:

- Soldering - John Gowers
- JMRI - Bob Mercer
- CBUS - Simon West
- FCU configuration - Mike Plowman
- general discussions throughout the club rooms covering many and varied subjects.

## JUNE 2nd 2018

**Another strong turnout of thirty members were treated to a detailed presentation by SIMON WEST**, the Area Group's lead on CANMIO, describing how the LWMRS 00 Gauge Exhibition layout has been revitalised using MERG CBUS. Whilst the layout has retained DC operation, Simon described how the underlaying design allows a relatively simple conversion to DCC at a later date if required. The route can be selected on the redesigned panel which uses CBUS to drive relays powering the track. The redesigned control panel has enabled the learning time for operators to be reduced dramatically.

In the afternoon, **Simon** moved on to show members the Duxbury layout operating. **John Gowers** was much in demand for soldering techniques advice and running hands-on sessions using SMT components. Several members sat down with Mike Plowman to discuss FCU and to use a new demonstrator tha Mike had produced. Several other groups were deep in discussion on various topics throughout the club rooms.

## Next Meeting - JULY 21st 2018

This meeting will feature a review of members' projects with presentations from:

David Thomas

Jeremy Mole

Bob Mercer

**Dates for further 2018 meetings will be announced shortly.**

## Exhibitions

### Leamington & Warwick Model Railway Society Show

Saturday 2nd March and Sunday 3rd March 2019

Leamington Spa College, Warwick New Road, Leamington Spa, CV32 5JE.

Opening Times – Saturday 10am – 5pm – Sunday 10am – 4pm.

Latest News at – [www.lwmrs.co.uk](http://www.lwmrs.co.uk)

Contact Exhibition Manager

Email – [exhibition@lwmrs.co.uk](mailto:exhibition@lwmrs.co.uk)

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