

Apr-May-Jun 2024



BRANCH LINE

NMRA'S FIRST REGION



Get on the Tech Line

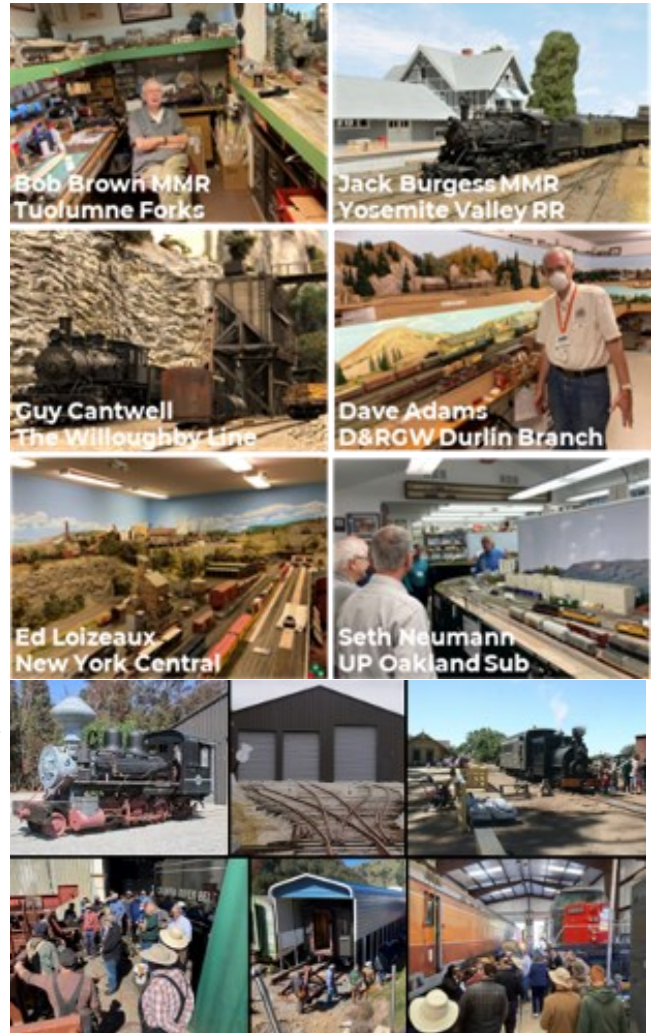
If you have not yet registered, there is still time to join the Pacific Coast Region in the middle of the Silicon Valley, April 24-28, 2024, for the Tech Line, the PCR 2024 Convention. Join us for 4 days of great model railroading. We will have over 40 open layouts, amazing clinics and some great prototype tours. The convention will feature 45 clinics with knowledgeable clinicians, including some great new technology clinics and Make and Takes. The convention will feature morning and evening clinics with mid-day open for layout tours, prototype tours and other events.

The layouts will feature a number of nationally recognized layouts, including Jack Burgess Yosemite Railroad and the amazing layout and structures of Bob Brown, Editor of the Narrow Gauge Gazette. The layout tours are arranged each day to enable visiting the best layouts and see those you find interesting. Don't miss this last chance to visit the San Francisco Bay area at a reasonable cost (hotel room rates are only \$139 - free parking and no resort fees) and see layouts that are being removed soon (Jack Burgess is tearing his layout out in October). The prototype tours will be the Society for the Preservation of Carter Railroad Resources (SPCRR) and the Niles Canyon Railroad. Both tours will let you get up close and personal with historical equipment from California's railroading past. And both will include trains rides, at Niles Canyon we will be riding the famous M-200 Railbus.

Where the Art of Modeling Meets Technology

THE TECH LINE

PCR Convention 2024 - Silicon Valley, CA



Continued on page 10

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Inquiries regarding membership application, renewal, or change of address should be directed to the NMRA, P.O. Box 1328 Soddy Daisy, TN 37384-1328.

Branch Line
Deadlines for 2024/25

JUL-AUG-SEP 2024 issue

Articles due by
June 10, 2024

OCT-NOV-DEC 2024 issue

Articles due by
September 10, 2024

JAN-FEB-MAR 2025 issue

Articles due by
December 10, 2024

APR-MAY-JUN 2025 issue

Articles due by
March 10, 2025

Please direct questions to the
 PCR Publications Manager,
 Gus Campagna at
campgus@earthlink.net
 Or phone (707) 664-8466

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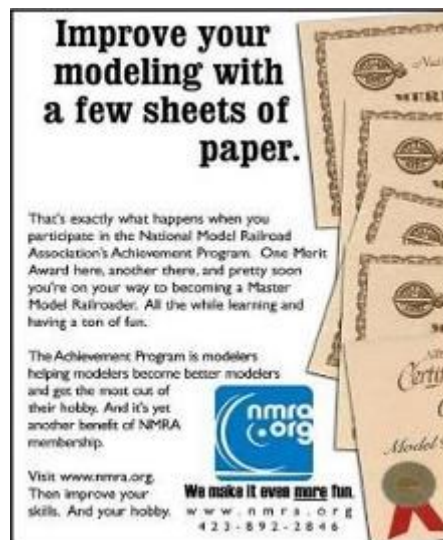
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From The President



By Frank Markovich, MMR
President

so far) in the afternoon. I hope to see many of you at the PCR convention. I will be doing a clinic and I will have my layout open on Sunday.

Train shows are back, in full splendor! I have attended three so far since the last **Branch Line** went out. Attendance at these events seems to be growing, and there has been a increase in membership in the PCR. This is due to many members working the train shows, etc. Phil Edholm, Dave Putnam, and Doug Wagner have been very active in this.

In addition, there are many shows coming up including: West Side Reunion, Sierra Seminar, and best of all, the NMRA convention Long Beach! I will be there the whole time. Lots to do and see. When you figure that most conventions require flying, and round trips are at least \$500 and usually quite a bit more, we can drive there for a tank and a half of gas. That alone is a savings of at least \$400. There are some great model railroads in the area and quite a number of attractions. My wife and I already have a long list of stuff to do.

One big change is the National Train Show. It will be at the convention hotel rather than the convention center. It is mainly a matter of money, as the NMRA has lost money at the train shows in recent years.

The PCR convention in Milpitas is coming up. The format will be more like a Narrow-Gauge Convention. Clinics in the morning and evening, and tours (lots of layouts – 40



From The Vice President



Chip Meriam, Vice-President
and *Branch Line* Editor

scenery completed before the signal can go in. The same scenery that is being held up because of the loose rail joint. The same rail joint repair that is being held up because the solder hasn't yet arrived. The solder that should be in the same shipment as the NJ International searchlight signal head, mast and relay box. After contemplating all this you just no longer have any ambition for adding weight to boxcars. Besides, it's almost time to go cut up that chicken for tonight's dinner.

As comical as this may seem, it is funny because it is rooted in reality. And the reality is that we tend to squander a lot of our modeling time fussing over such things while accomplishing nothing. So how do we prevent these situations or deal with them if they occur anyway? My best suggestion is to just do it. I've found that, nine times out of ten, just getting started goes a long way toward accomplishment. It's "getting off the flat spot". Once you get the whole train rolling, inertia does much of the work.

As I write this, It's Tuesday morning, March 26. Nothing special about this day except that I am keenly aware our regional convention, Tech Line, will kick off in less than one month.

YIKES! That means I have to put the "polishing touches" on the two clinics I've agreed to present and, hopefully, finish up a couple models for the contest. Will I make the deadline? Well, the clinics will certainly be ready to go. Not so sure about the contest models.

Please pardon this horrible pun: This "Train of Thought" conjures up a recent column in *Model Railroader*—Tony Koester's "Trains of Thought" in the April issue. The cleverly conceived title was "Overcoming inertia". Tony goes on to explain that one of his biggest boons for productivity is a looming deadline. With that in mind, let us revisit something I wrote in the April 2016 issue of the Sierra Division *Short Line*, "Getting Off the Flat Spot."

You have been looking forward to finishing the trackside scenery in the cut separating the two sides of town, but before you can proceed there's that loose rail joint that needs to be soldered. But wait, you're out of solder and your MicroMark shipment isn't due to arrive until Monday afternoon. So you turn your attention to adding weight to that last string of boxcars that have been spotted on the RIP track for the past four months. When you reach for the first boxcar to bring it to the workbench you are reminded of, and confronted with, how much dust accumulates in four months. Not wanting to attack the dust right now, you open your notebook to write yourself a reminder to dust the entire layout. On the page adjacent to where you jot down your dust note, you spot a hastily sketched schematic for wiring a bi-polar LED to display red, yellow, or green. That LED circuit is to be part of the searchlight signal that is to be installed trackside in the cut that separates the two sides of town. The same cut that needs the





2024 Surfliner Convention: Call for Clinic Presenters

The Clinics Committee for the upcoming NMRA 2024 Surfliner Convention in Long Beach, August 4-11, 2024 is seeking clinics presenters. Clinics of any model railroad nature will be considered. We are also interested in clinics that spotlight model railroading in Southern California.

Possible subjects may include:

- History of prototype railroads,
- Prototype railroad operations,
- Modelling that represents the current railroad culture,
- Any other subject of interest to railroad modelling, or
- “How-to” or “Make and Take” clinic.

The convention committee has redesigned the clinic proposal form to better provide information for both you and the convention committee. We request that you complete this form, for each clinic proposal, as soon as possible. You can find the new revised form using this link > <https://forms.gle/FtB6HGVjT7DQHChc6>

If you choose not to come to Long Beach for either show, we encourage you to present a clinic via zoom during our convention.

If you have any questions or problems, please do not hesitate to contact Patrick Rogan or Paul Stoner at clinics@surfliner.org

If you cannot make it to Silicon Valley in 2024

Where the Art of Modeling Meets Technology

THE TECH LINE

PCR On-Line Virtual Convention 2024

For many NMRA members, getting to a convention is a significant challenge. Whether because of work, travel, cost, or health issues, it is often impossible to make the trip to a convention. For 2024, the PCR is presenting an on-line virtual version of the convention for those members that cannot attend in person.

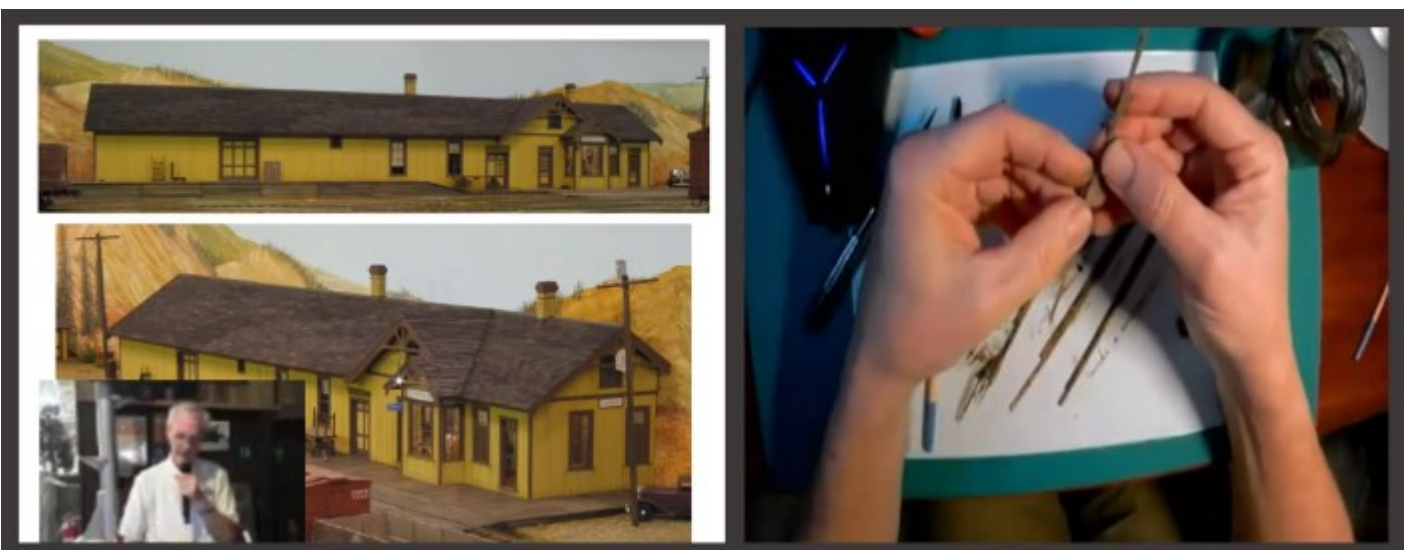
If you are not an NMRA member or outside the Northern California area, the PCR 2024 Virtual Convention will be great experience with outstanding clinics and other activities. If you are a PCR member that has moved away, it is great opportunity to reconnect.

While it is never possible to replicate the in-person experience of a live convention, the 2024 PCR Virtual Convention will provide a part of the experience for remote attendees. But, if you cannot attend the in-person convention, you can get a great on-line experience with both clinics and other on-line activities.

On-Line Virtual Experiences Currently Planned

- Clinics – one of the three clinics rooms will be equipped with cameras and microphones to enable remote participants to see the clinician, presentations, and demonstrations in a special video workspace. The room will have active moderation and clinics will be followed by on-line meeting time with clinicians.
- Contest Room Reviews – PCR Master Model Railroaders and Contest Judges will take you on a video tour of the contest room. They will discuss the models and, for those that were judged, a bit about the contest judging process. Learn about contests in a very unique way.

On-line discussions and Birds of a Feather – there will be opportunities to meet with the other virtual participants for discussions



and sharing.

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Quality On-Line Experience

The PCR 2024 On-Line Virtual Convention will be hosted and moderated by TSG Multimedia. The TSG Multimedia team of John and Cydney Abatecola will be the hosts for the virtual event at the physical convention. They have hosted multiple highly successful virtual events, including the 2021 NMRA National Convention, multiple OpSig Meets, and the PCR 2023 On-Line Virtual Convention.

Next Best Thing to Being There

The on-line virtual convention is a great way to participate, in fact it is the next best thing to actually going to the convention in person. However, a virtual event cannot provide all of the exciting activities and interactions of an in-person event. This are how attending the in-persona and virtual events differ.

Convention Attraction	In-Person Convention	Virtual Convention
Clinics	✓✓✓	📺
Prototype Tours	✓✓✓	*📺
Contest Room	✓	📺
Layout Tours	✓	✗
Operating Sessions	✓	✗
Non-Rail Activities	✓	✗
Vendors and Swap Meet	✓	✗
Banquet and Breakfast	✓	✗
Meeting Old Friends	✓	📺

*📺 Under Development

PCR 2024 Virtual Convention Fares

The fare pricing for the PCR 2024 Virtual Convention is less than the in-person fares, reflecting the differences in value. For the 2024 Convention, the On-Line Virtual Fares are:

- On-Line Virtual Regular Fare (after January 15, 2024): \$30.00
- On-Line Virtual Early Bird Fare (through January 15, 2024): \$20.00

Don't miss the convention if you cannot make it in person. Get on the Tech Line virtually.

**REGISTER
HERE**

<https://www.pcrnmra.net/conv2024/join-the-on-line-virtual-convention/>



Welcome Aboard ! PCR's Newest Members

Member	City, Sate	Date Joined
Daylight		
Sandra Theis	Woodlake CA	1/4/2024
David Braun	Carpinteria CA	1/16/2024
Jerry Harris	Tulare CA	2/5/2024
Jeremy Green	Madera CA	2/5/2024
Family Green	Madera CA	2/5/2024
Anthony Orosco	Visalia CA	2/9/2024
Terry Dahl	Bakersfield CA	2/20/2024
Coast		
Jason Fitzgerald	Kailua HI	12/14/2023
Ryan Glickman	Antioch CA	12/16/2023
Apollo Glickman	Antioch CA	12/16/2023
David Komyathy	Pleasant Hill CA	12/16/2023
Lindsay Lucas	Antioch CA	12/16/2023
Max Lucas	Antioch CA	12/16/2023
Todd Sunia	Concord CA	12/20/2023
Khalif Stevenson	Berkeley CA	12/21/2023
Jeffrey Bright	Cupertino CA	1/22/2024
Keldrick Randolph	Newark CA	2/1/2024
Jeff Ehrman	San Leandro CA	2/1/2024
Michael Saxton	Newark CA	2/1/2024
Malcolm Robinson	San Bruno CA	2/1/2024
Steve Parker	San Leandro CA	2/1/2024
Dee Murphy	Los Gatos CA	2/1/2024
Mark Curtis	Pittsburg CA	2/1/2024
Jerry Rosenberg	San Jose CA	2/1/2024
Will Lachnit	Pleasanton CA	2/1/2024
Ben Smith	Oakland CA	2/1/2024
Larry Cowles	Saratoga CA	2/1/2024
Orlando Gonzalez	Concord CA	2/1/2024
Ed Getger	San Martin CA	2/1/2024
Tim Callahan	Walnut Creek CA	2/1/2024
Victor Lucchesi	Castro Valley CA	2/1/2024
Madison Brandon	Oakland CA	2/1/2024
George Hyman	Lafayette CA	2/1/2024
Joseph Paulsen	San Jose CA	2/9/2024
Bert Brown	Danville CA	2/15/2024
Paul Komperda	Pittsburg CA	2/19/2024
Terri Rosenbauer	Montara CA	2/26/2024
Mark Beasley	Sunnyvale CA	2/27/2024
Sierra		
Paul Wansik	Sacramento CA	12/8/2023
Riley Bestor	Chico CA	12/12/2023
Jeffrey Bauer	Reno NV	12/26/2023
David Allred	Reno NV	1/2/2024
James Chase	Stockton CA	1/9/2024
Michael Moroni	Valley Spgs CA	1/11/2024
Alan Nichols	Sun Valley NV	1/12/2024
James Clausen	Reno NV	1/29/2024
Sean Randall	Manteca CA	2/1/2024
Austin Wolff	Soda Springs CA	2/5/2024
James Harness	Placerville CA	2/13/2024
Redwood Empire		
John Fenlon	Mill Valley CA	2/1/2024
Brandon Smith	Suisun City CA	2/1/2024
Nick Gundy	Santa Rosa CA	2/1/2024
Tom Sheldrake	Eureka CA	2/20/2024

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PCR Membership Gauge

February 28, 2023—766
 March 30, 2023—796
 April 30, 2023—796
 May 31, 2023—789
 June 30, 2023—785
 July 31, 2023—781
 August 31, 2023—780
 September 30, 2023—775
 October 31, 2023—775
 November 30, 2023—778
 December 31, 2023—769
 January 31, 2024—755
 February 29, 2024—776

PCR Membership Tracker

<u>Division</u>	<u>#Members</u>
Coast	347
Sierra	242
Redwood Empire	108
Daylight	<u>79</u>
TOTAL	776

In Memoriam

Member	City, Sate	Date Joined
	<u>Daylight</u>	
Charles (Life-Time Member)	Thorpe Goleta, CA	1/1/1972
	<u>Coast</u>	
Ralph Saxon (Lifetime Member)	San Francisco, CA	1/1/1968
Mark Gurries	San Jose, CA	7/7/1992
William Louie	Fremont, CA	1/1/1960
	<u>Sierra</u>	
Robert Breeden (Lifetime Member)	Weaverville, CA	1/1/1957





If you are not able to make it to Silicon Valley, check out the Virtual version of the convention. The PCR 2024 Virtual convention will feature clinics, discussions with clinicians, Tours of the Contest Room with MMRs and Judges, Birds of a Feather Sessions, Vendor presentations and more. Don't miss attending a convention for a fraction of the in-person price (even at the great

\$139 room rate). For those modelers that have to work on Thursday and Friday, choose the Saturday Day Fare and it includes the virtual convention on Thursday and Friday. So, you can participate remotely and then come on Saturday for all of the events at the convention.

For those of you coming from outside the Bay Area, driving in on Thursday morning and staying until Saturday using the Express Fare let' you enjoy the entire convention (without the Saturday Banquet and Sunday breakfast) for about \$450 (Express Fare and hotel with tax). This is a great deal to attend a convention in Silicon Valley.

Visit the PCR2024 website here: <https://www.pcrnmra.net/conv2024/>



Sonesta San Jose Hotel

PARKING IS FREE!

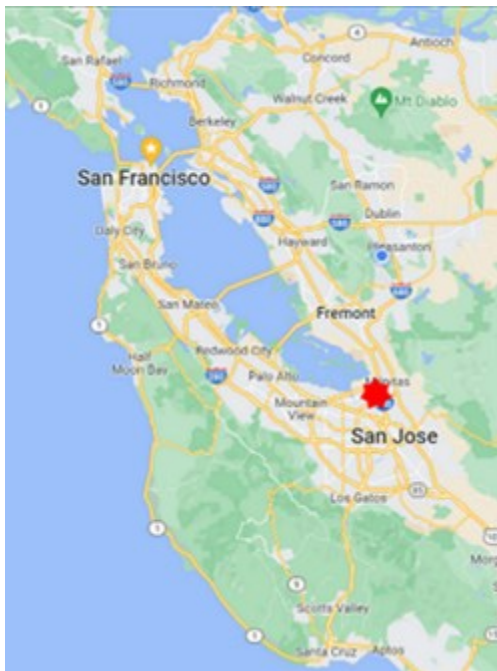
Use the QR Code to visit the Tech Line website



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The layout tours will feature the great layouts of the Bay Area. It has been 8 years since the last NMRA convention in the Bay Area and there are some great improved and new layouts. We are planning on having over 30 layouts open during the convention.



The convention will include prototype tours and operating sessions as well as lots of other model railroading activities. Check out the PC2024 website for more information. Don't miss this opportunity to go to a great local convention. With the great \$139 room rate and all of the great model railroading attractions, this is a convention not to be missed.



REGISTER HERE

<https://pcrnmra.regfox.com/pcr-2024-convention>



Have you joined the NMRA Interchange? It's the newest tool to help you connect with other members, gain knowledge and learn to modeling techniques. The Interchange is hosted on the Discord application which is available for Windows, Apple OS, Android and Apple devices. See instructions below for signing up.

Joining the NMRA Interchange

Speed Muller

IT Manager, NMRA

Have you joined the Interchange yet? If not, follow these steps to get connected!

1. Go to nmra.org/nmra-interchange
2. It will ask you to log in to the NMRA website if you're not already logged in. If you are not registered with the NMRA website yet, now's the time to do it. Click the "Need a username? Register now" button, and get set up. Use the email address on file in the NMRA membership system (probably the one where you got this eBulletin). The system will email you a link to set your password.
3. Now you should be in the [NMRA Interchange](#) page. If not, click this link.
4. Click on [Member Info](#) in the top right corner and scroll down get your exact Member ID. You'll need that later.
5. Read through the page and then follow the "Interchange Server Invite" link at the bottom. This is a special link just for you and will look something like <https://discord.gg/xxxxxxx>
6. You will be taken to Discord (the platform that hosts the NMRA Interchange) where you will be prompted to sign in, if you already have an account there, or prompted to register, if not. If you need instructions for creating an account or logging into Discord they can be found [here](#).
7. Once you accept the NMRA Interchange Invite, and you are logged in, you will land in **#the-lobby** with a message on what to do next.
8. We suggest that you read and agree to the **#rules** first. Just click on **#rules** and then click on "thumbs up". Then click on **#the-lobby** again to do the most important step.
9. Discord and the NMRA need to check with each other, in order to verify that you are a current NMRA member with an email on file. You start the process with the **/onboard** command. Now, this is very sensitive to the type of device you are using, so just type the first few letters **/onb** at the bottom where you see a + sign in a circle. It will complete the command for you in a pop-up just above that. Click on the **/onboard** command. Add your membership number (6 characters followed by a space and then two more characters) just as you noted in step 4. Example: `/onboard input: 123456 0A`
10. Discord and the NMRA computers will have a chat, and then you will receive an email containing a **/clearance** command. That's your entry ticket. Copy and paste the whole line into **#the-lobby** (at the + sign again). Example: `/clearance input: 654321`
11. You're in! You will not have to do any of this again. If anything derails, you'll get a message telling you what to do next, and we also have Moderators in the Interchange standing by to help.
12. If all went well, you'll now see more than 350 channels (those # things). We suggest you start by going to **#introduce-yourself** and then scroll up to **#the-workbench** to see what others have done and shared! Then find your Region and Division and say "hello" there. And then start participating and enjoy!



2024 SPH&TS Convention : Sparks, Nevada



Dates:

Wednesday, October 16 through
Saturday, October 19

Location:

Nugget Casino Resort
1100 Nugget Avenue
Sparks, NV 89431



Pacific Coast Region of the NMRA Joins with New Tracks Mentoring Inc. to provide a \$2,000 scholarship for the 2024/25 Academic Year

The Pacific Coast Region of the NMRA is joining with New Tracks Mentoring Inc. (NTMI) to sponsor a \$2,000 scholarship for the 2024/25 academic year for a model railroader pursuing a STEAM degree. The *New Tracks Modeling Mentoring Scholarship sponsored by the Pacific Coast Region, NMRA* will be one of three \$2,000 scholarships awarded this year by New Tracks Mentoring Inc., a registered 501c3 charity organization. Each of the three scholarships will be awarded to a deserving young model railroader to assist in their pursuit of a higher education degree.

All three scholarships can be applied for in a single application. Links are below to the scholarship page and the applications.

The goal of the New Track Modeling Mentoring Scholarships (NTMMS) is to help model railroaders pursue higher education in the STEAM disciplines. For calendar year 2023/24, NTMI awarded a single \$1,000 scholarship to Ethan Bernstein, a junior this year at Johns Hopkins University. Ethan is an NMRA member and works on N scale issues on the Conformance Committee of the NMRA.

Frank Markovich, MMR and President of the Pacific Coast Region said about the scholarship, “The PCR, being the first NMRA region, is excited to take a leadership role in offering scholarships to young modelers to help them pursue a higher education degree. Young modelers are the future of the model railroad hobby and the NMRA. The skills and knowledge young modelers gain while participating in model railroading are all STEAM based and lead to great educational opportunities. We hope the scholarship will help a young modeler not only get a degree, but also continue to participate in the model railroading hobby.”

Jim Kellow, MMR and President of New Tracks Mentoring Inc. thanked Frank and the Pacific Coast Region of the NMRA for their forethought and leadership in helping to educate our young model railroaders. “We are looking forward to working with the PCR to promote this special Scholarship and hope other Regions and Divisions of the NMRA also choose to participate in our Scholarship program” he said.

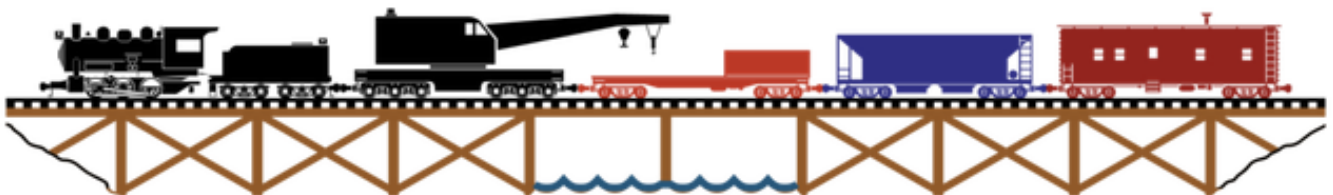
More details about the scholarship can be found [HERE](#)

Apply for the scholarship using an on-line form [HERE](#)

Apply for the scholarship using a pdf form [HERE](#)

New Tracks Mentoring Inc. is a registered 501c3 charitable organization focused on promoting the model railroading hobby to young people by sponsoring scholarships for model railroaders pursuing higher education. Donations to the New Tracks Mentoring scholarships can be made [HERE](#).

NEW TRACKS MODELING





By Jack Burgess, MMR, Manager, PCR Achievement Department Golden Spike Program

This month, we'll take a break from the Achievement Program certificates to discuss the Golden Spike Program. For some modelers, the requirements of the AP can seem too intimidating and/or too much work. The Golden Spike Program is much easier and requires demonstration of modeling skills in only three areas. The Golden Spike Program is thus a good way to get your "feet wet" with the Achievement Program and get some recognition for your modeling skills at the same time.

The first category is "Rolling stock". This category requires completion of six (6) models (motive power or cars) which can be scratchbuilt, craftsman kits, or detailed commercial kits. While purchasing a ready-to-run Kadee PS-1 boxcar or adding trucks to an Athearn flatcar won't meet this requirement, building a resin kit or even a Tichy freight car kit with some weathering would meet the requirements. They only need to be "displayed" meaning having them on display at a divisional meet or even on your layout.

The next category is "Setting" and can be satisfied by constructing a minimum of eight (8) square feet of layout with scenery. Note that eight square feet is a scene only 4' wide by 2' deep! There must be at least five (5) structures on the layout, which must be scratchbuilt, craftsman, or detailed commercial kits. If there are less than five structures, additional ones separate from the scene can be used to fulfill the requirement. Remember that bridges are also structures. The layout is not "judged" but only that it qualify as a "layout" which means more than plywood painted green with some track.

Finally, the last category is "engineering" (civil and electrical). It requires the completion of three (3) types of trackage (turnout, crossing, etc.). Even track on a grade is considered a type of trackage. The three examples of trackage do not need to be different; a passing track and spur will include three turnouts which will satisfy this requirement. All of the examples must be properly ballasted and installed on a proper roadbed which can be cork roadbed if desired. While hand-laid track can be used, commercial trackage is perfectly acceptable. All of the installed trackage must be properly wired so that two trains can be operated simultaneously by using a double-track main, a single-track main with sidings, block control, or command control. Note that this requirement can even be met by having selective power to a spur so that one engine can be run into a siding, the power cut, and a second engine run over the main. Finally, one additional electrical feature must also be provided. This can be a powered turnout, a track signal, a turnout indication, a lighted building or campfire, etc.

Many modelers will quickly discover that have already completed these requirements with their layout (even if it is still under construction) and need only to complete an application in order to be awarded a Golden Spike Award. The Application Form for a Golden Spike is at:

<https://www.nmra.com/golden-spike-award>

The verification on the application can be by any other NMRA member in good standing. **Attach a photocopy of your NMRA membership card** and the application is complete! Once you have this Award "under your belt", you can use this same work, with either some refinement or additional effort, as the start of your efforts for several Achievement Awards if desired.

If you are interested in the AP Program or Golden Spike Program, contact me for more details. My phone number, address, and e-mail address are listed in the Call Board on Page 2.



The Answers Are Out There

By Robert Pethoud

Non-Clearing Trains 5



For our last look—at least for a while—at non-clearing (too long for the siding) trains in single-track territory, we have a puzzle posed last time by Reinhard Müller: a hotshot train needs to pass the long train at a facing-point spur. The problem is that the spur is only long enough to hold the motive power or one-fourth of the long train’s consist.

Now, before you stop reading because the predicament seems too unrealistic, assume that the pass is supposed to take place at a siding long enough to hold the long train, but an accident—traffic or industrial—has rendered all but a short section of the siding temporarily unusable. Grant that the situation, however improbable, is still possible.

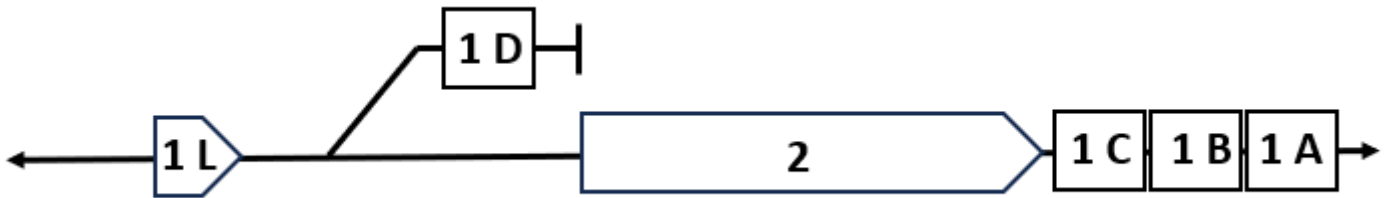
Can the hotshot pass the long train here? Of course it can; otherwise Herr Müller and I would not have brought it up. And, after the pass, we want the order of the cars in the long train to be the same as it was before the pass. The real question is how to do it. Start with the trains as shown below and try it for yourself, perhaps with pieces of paper you can maneuver.



The first step is clear: the motive power of the train to be passed (1L) enters the spur, which allows train 2 (the hotshot) to push train 1’s consist past the turnout:



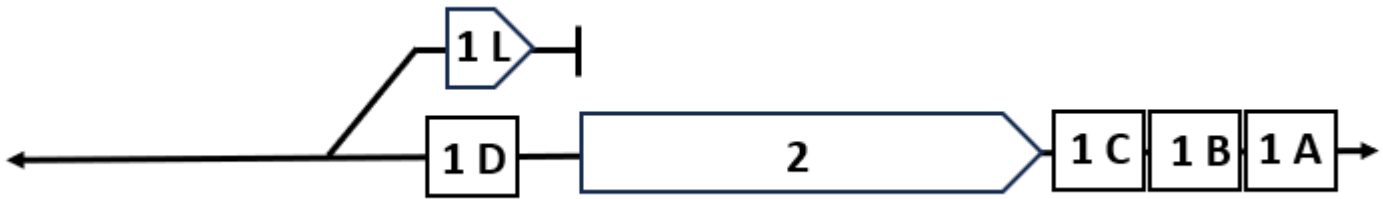
At this point, 1L backs out of the spur and goes far enough back that train 2 can maneuver. Then, train 2 takes 1D back clear of the switch and puts that block of cars onto the spur:



Continued on page 17

Answers ct'd.

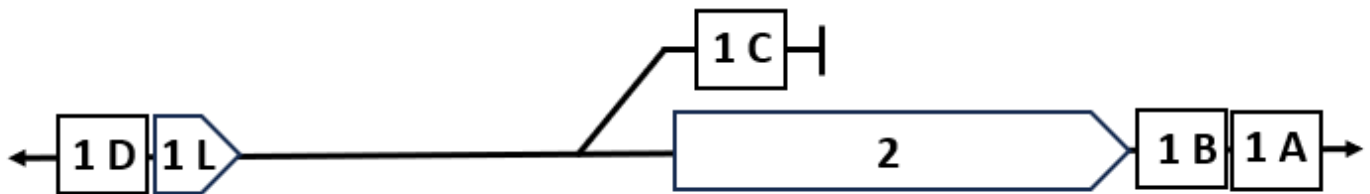
Next, 1L pulls 1D out of the spur, places it on the main, and takes its place on the spur:



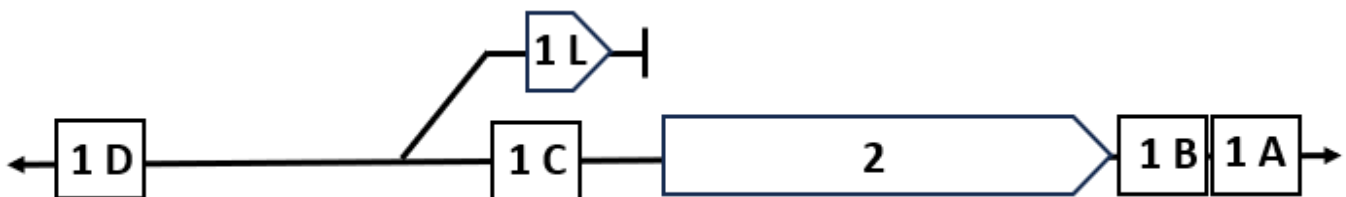
This allows train 2 to push 1D back beyond the switch, then pulls forward so that 1L can leave the spur:



Then, train 2 can pull 1C back and place it on the spur:



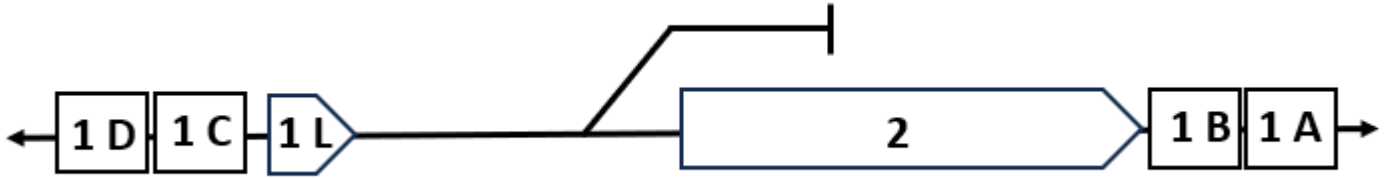
Now, 1L can do with 1C what it did earlier with 1D:



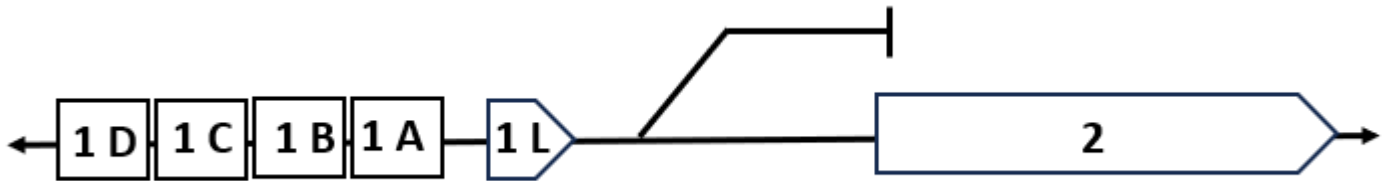
Continued on page 18

Answers ct'd.

This permits train 2 to back 1C against 1D and then pull forward to allow 1L to leave the spur:



From this point, the rest of the process should be clear: train 2 will place 1B on the spur, 1L will move 1B from the spur to the main and take its place on the spur, then train 2 will shove 1B against 1D and 1C and pull forward to allow 1L to join them, which frees up the spur for train 2 to place 1A there. Then, after 1L moves 1A from the spur to the main and takes its place on the spur, train 2 will shove 1A back to complete the consist of train 1, at which point train 2 will be free to leave. All that is left then is for 1L to back off of the spur, couple to its train, do a brake test, and proceed on its way:



Yes, I'm aware that while a pass has been successfully accomplished, both trains are now hours behind schedule. Maybe it would have been better to have the hotshot plod along behind the slow freight until they reached a siding or spur long enough to hold the slowpoke.

By the way, we can simplify the problem a bit by assuming that the spur is long enough to hold the passed train's motive power plus one of the four groups of cars in its consist. Try that easier problem to see how many moves that saves. Thank you, Reinhard, for your solution and suggested new problem!

That's all for this time. Feel free to contact me with comments and/or questions at pethoud@comcast.net



Tales of the Santa Cruz Northern

By: Jim Providenza

Don't Kludge It Up!

Kludge' – noun; an ill-assorted collection of parts assembled to fulfill a particular purpose. Oxford Languages / Google (Oxford English Dictionary).

'Kludge' – to put something, especially computer hardware or software, together from whatever is available, especially when it does not work very well: 'instead of kludging a solution together, it's possible to spend a little more time and money and get one that really works.' Cambridge Dictionary.



Over the last 6 years working on Paul Weiss' CVinNCA I have filled a number of positions. One of them is 'Junior Assistant Freight Car Guy'. As such I am often doing in-take, swapping out trucks and couplers that don't meet the CVinNCA requirements and running checks against the NMRA Standards Gauge. Minor and even major repairs come my way... I am also the locomotive foreman working on both electrical and mechanical issues to keep the CV's motive power up and running.

And along the way, I have to say, I have been amazed, even, dare I say, dumbfounded, at some of the things I have come across that have been done to repair or 'improve' both rolling stock and motive power. Couplers – I mean, how many ways can you improperly install a Kadee No. 5 coupler? Coupler box (not Kadee OEM) too tight, too loose, tipped up or downwards so the No. 5 won't move, or the coupler box is not fixed, or the coupler droops. Kingpin screws that are so loose their trucks flop around and the car body leans from side to side like a drunken sailor. Failure to provide 3point suspension – one truck a bit loose and the other able to swivel but not rock at all. Ah, but these are in truth merely a few minor bagatelles.

The following photo, I submit, is a kludge of epic proportions, worthy of a Rube Goldberg award:



Continued on page 20

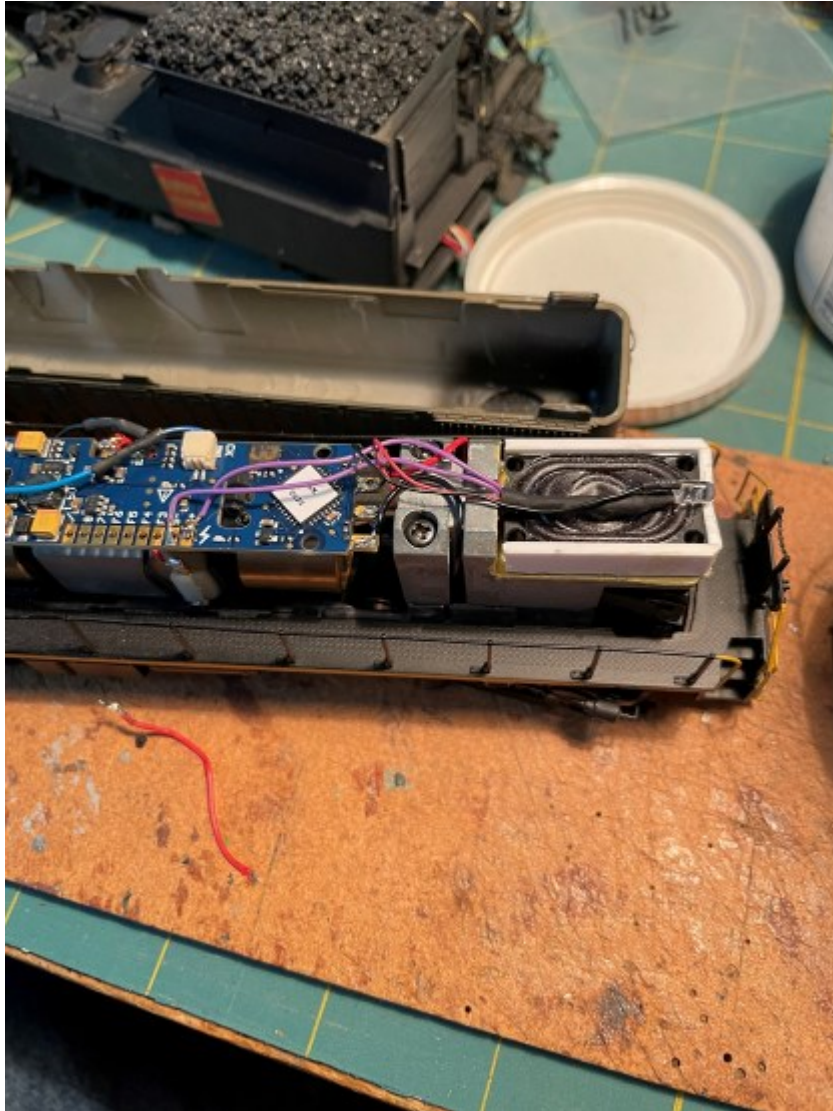


Paul had purchased some used tank cars on line as temporary stand-ins for use at a bulk oil terminal on the new switching district on the New York, New Haven & Hartford RR in New London. When they arrived he asked me to run them through the shops – and to renumber several cars with duplicate reporting marks. He had not seen this beauty buried in the half dozen cars when they arrived...

I still don't know how to explain someone doing this – I simply can't comprehend the thought process involved. The tank car itself is, I believe, a knock off of the Athearn 12,000 gallon, 3 dome tank. Minus only its trucks and couplers it has been glued and screwed on top of an Athearn 'blue box' 40' boxcar floor and underframe. Note that the Kadee No. 5 couplers have had their trip pins cut half off. I mean, if you are an operator you almost certainly want to have them intact; if you find them offensively unprototypical you would probably cut them off at the bottom of the coupler. But half way? But maybe this is only a minor insult on top of a major injury.

Continued on page 21

On the electrical / computer side of things, consider this second photo in light of the second definition:



This is an Atlas RS3 which came to the SCN shop from the CV with what sounded like a blown speaker – there was a constant rattle in the background sound. Let's take a look under the [long] hood. First, the wiring for the headlight does not follow the NMRA Standard – should be blue to V+ and white to the headlight negative lead, not red and black. (We won't discuss the color code of the motor leads, thank you very much!

Second, the speaker is not properly set in a baffle. The unknown installer built a mounting cradle out of three pieces of styrene, glued the speaker to this and mounted it to a milled-out part of the front weight using double stick tape. As you can see the cradle is open on one end. To add to the lack of a baffle, the 4 mounting holes in the corners of the speaker also have been left open. While the speaker loses a lot of volume without a proper baffle, the speaker cone itself is still vibrating. And while it was not making the amount of sound it could have, the cone was more than capable of rapidly bouncing the LED headlight, attached resistor and wires which were lying loose on it up and down off its surface, making a wonderful rattle. Yes, really – I

watched it doing so.

After correcting the wiring, I used canopy glue to seal the mounting holes and the gap between the cradle and the face of the remaining weight. This created the needed baffle. I then used the canopy glue to secure the headlight to the cradle and the wiring to the weight. Testing showed this was sufficient to cure the rattle. What did that definition say? Using just a little more time and effort, we could have had something that was correct and worked right from the beginning...

I hereby open the floor for nominations for the best kludge you have come across – and what you had to do to fix it!



Looking Back

by Dave Connery, MMR, PCR Historian
A Brief Overview of Our History

(Note – much of the material in this article is drawn on work that Lisa Gorrell did as part of the PCR 50th anniversary celebration in 1994, a summary that Gus Campagna developed in 2017 and articles I wrote for the Branch Line in 2012, 2013 and 2021.)

The NMRA was organized in Milwaukee, Wisconsin in 1935, but not to publish a Magazine, hold Conventions and National Train Shows, have Contests or conduct an Achievement Program – all that was to come later. The purpose in 1935 was to set standards. At the time most organized model train activity centered around clubs, with O-Scale being the primary modeling scale. It was very frustrating when a modeler visited another club or moved to a new area to find that their equipment did not work on other layouts. Wheel and track configurations were different, trains ran on everything from 6 volts DC to 115Volts AC. Some systems used two-rail, others three-rail in both center and outside third-rail configurations. In addition, every manufacturer built to their own preferred standard so when you purchased a model there was no guarantee it would work with your existing equipment. It was a mess!

Most National activity centered in the Milwaukee and greater New York City areas and as work on standards progressed; modelers took the opportunity to add formal dinners, contests, presentations, and tours to their meetings. The national organization was growing and beginning to take the shape we know today. However, modelers on the West Coast felt cheated. It was a long way to the activities in the east and during the World War II years, long distance civilian travel was nearly impossible. At the 1942 gathering in Rochester, NY, a contingent from Los Angeles that was able to get to the meeting, proposed the creating of local Regions. This concept was incorporated into the NMRA by-laws at the Convention in 1943 and the ground work was set for the development of the Pacific Coast Region.

To get the wheels rolling here on the west coast a meeting was held at the Metropolitan Model Railroad Club in Los Angeles to discuss a region. It was determined that 19 of the attendees were already NMRA members and an additional 21 agreed to join if there was to be a region here on the west coast. (At the time NMRA dues were \$1.00 per year and the PCR dues were initially set at \$.50 a year.) PCR's Charter as the first region in the NMRA was formally presented at a meeting at the Channel Model Railroad Club in Santa Barbara on July 2, 1944. The PCR was official!

Initially the region consisted of the states of Arizona, California, Nevada, Oregon, Washington, and Idaho. In 1948 the Pacific Northwest Region (PNR) was formed, combining Oregon, Washington, Idaho and Alaska with the Canadian province of British Columbia. In the early 1980s a movement grew to divide the PCR, then the largest region by membership in the NMRA. Concerns over the rising cost of conventions and the difficulty of finding an adequate facility outside of the few large metropolitan areas to hold a group our size was voiced. Thus, in 1982, the Pacific Southwest Region (PSR) was carved from Arizona, southern Nevada and southern California.

A similar movement had been brought up in the early 1950's. At that time many modelers not having close access to a model railroad club wanted an organization with activities within a few hours' drive of their home. In 1952 a motion was put to the membership asking if they would prefer to have the region split in two, if they would like to have Divisions created (initially five were outlined) or remain as a single region. The creation of a series of Divisions (option 2) won. In what is today the PCR, we had the Sierra Division, Daylight Division and a combined Coast and RED. The Redwood Empire Division was created from coastal counties north of the San Francisco Bay in 1961. Today this is essentially our organization.

Continued on page 23



Looking Back ct'd.

Two other divisions have come and gone in the intervening years - the Silver State Division in Northern Nevada that split off and then returned to the Sierra Division and the Hawaii Division, where too few NMRA members and expensive plane flights between islands have thwarted the development of a stable division.

In the early days of the Region, annual meetings over a weekend were held at one of the large clubs where, in addition to a business meeting, there would be a chance to operate trains on the host club's layout. As the membership grew the meetings started to take on a more convention format, with a growing attendance they were moved to a local hotel. In 1951 the meeting/convention was moved from December to the spring, where it remains to this day. In 1954, official PCR contests were added to the standard meet format. In 1972 the photo contest became a regular part of the PCR contest. Conventions continued to be enhanced over the years with the addition of both prototype and layout tours, operating sessions, and Non-Rail activities. In 1961 a group of members who had traveled to the 1960 NMRA convention on a train, met for breakfast and the tradition of a Hobo Breakfast at PCR conventions was born. In 1973 the first John Allen Memorial Award was awarded by the Gorre & Daphetid Operators and has been awarded every year since. The PCR Presidents Award was started in 1958 and the Division Member of the Year Awards date back to 1976.

In 1994 the PCR held its 50th Anniversary Convention at the Santa Clara Convention Center with a special guest, Vernon "Tex" Guess in attendance—the first PCR President back in 1944. This year we celebrate our 80th anniversary convention at the Sonesta Hotel in Milpitas, California, **The Tech Line**. See you there!



Where the Art of Modeling Meets Technology

THE TECH LINE

PCR Convention 2024 - Silicon Valley, CA

April 24 - 28, 2024
Sonesta San Jose Hotel
777 Bellew Drive
Milpitas, CA



As spring approaches, the 30th annual GEHAMS Train Show in Bakersfield in early March and the Ventura Train Show in February once again gave an opportunity for the Daylight Division to recruit new members. This year, new member Larry Young and veteran Bruce Morden recruited new members in Ventura along with PSR members. Another new member, Tom Osterdock volunteered to help recruit alongside veterans Neil Fernbaugh and yours truly.

I believe that sharing what our new members are doing with the rest of the members is important because I'm proud that they are actively contributing to the NMRA. The simple fact that getting our newest members involved and becoming a part of the activities of the PCR are important to the rest of the members of the region. Our new members would not be active in the division were it not for the mentorship provided by experienced members in the division. In Larry Young's case, Bruce Morden provided excellent mentoring and was able to introduce him to fellow model railroaders in his neighborhood and thereby got him involved. In Tom Osterdock's case, Doug Wagner helped him get involved with other members in the division by welcoming him to the in-person Daylight Division meetings.

Speaking of getting involved, this year marks the 30th annual GEHAMS Bakersfield Train Show. This year's attendance topped last year's attendance by over five hundred people. Helping to make the show successful were Daylight members Neil Fernbaugh and Doug Wagner. Doug and Neil worked the front table at the show, helping the attendees enjoy the show.

Notice the theme in these stories. Our Daylight Division members actively participating and helping fellow model railroaders are good for the hobby, and they discover that they really enjoy interacting with other, especially newer members of the hobby. As usual, the main attraction at this year's train show was the layouts. Families were able to get out of the house and enjoy the trains.



The Bakersfield Train Show recruiting crew included new Daylight Division member Tom Osterdock (left) and Daylight Division Director Walter Mizuno (right)



Daylight members Neil Fernbaugh (seated) and Doug Wagner (standing) helped answer questions from the numerous attendees during both days

From the very youngest to the oldest, people wanted to know more about model railroading. Note the video interview being conducted in the background.



Continued on page 25

Daylight Division, ct'd.

Another reason to attend a train show is the opportunity to visit local layouts. Tom Osterdock had an open house and welcomed many visitors. Tom was a very gracious host who allowed the pictures on the next page to be shared.



Visitors to Tom's layout were greeted with desert scenery featuring nicely done structures that looked right at home.



Always smiling, Tom welcomed visitors to his layout, the Olympia Logging Mining Navigation.

Twin ore tipples mark the transfer point between the narrow gauge and standard gauge railways.



Watching the diminutive mine switcher approach the ore tipple with its headlight glowing. You can almost hear the rails creak and groan. With apologies to Ed Merrin on the foreground focus.

Whether you are new to our division or have been a member for a long time, remember that it takes all of us to welcome someone new and to keep our division active. As we continue to recruit new members, please volunteer to mentor our new members and help them enjoy the benefits of membership. Share the joy of model railroading with our newest members. I hope to see many Daylight Division members at the upcoming Tech Line convention in Milpitas. If you see me, please stop me to say hello.



Walter Mizuno



30th Annual Bakersfield Train Show

by Doug Wagner

The 30th Annual Bakersfield Model Train Show is now history. Although considered a smaller show by the International Rail Fair and Great American Train Shows standards, which can draw up to several thousands of attendees, we did have an increase in attendance of 481 over the 2023 show, for a total of 1,782--which is great for our humble little train show! Most sellers reported very active buying from the attendees and there were 10 layouts on display for the public to enjoy. I guess the rumors that model railroad is a dying hobby are premature!



The People DID Show Up!
(photo: Doug Wagner)

A big THANK YOU! to the Daylight Division members who staffed the NMRA table, at the Bakersfield Model Railroad Show: Tom Osterdock, Neil Fernbaugh, Greg Mizuno, Kevin Mizuno, and Daylight Director/Superintendent, Walter Mizuno (sorry, Doug Wagner was too busy staffing the entrance table to help!!!). We were able to sign on 4 new NMRA members.

Planning is already underway for the 31st Annual Model Railroad Show, which will be March 1st and 2nd, 2025. There is never any rest for the planners! We hope to see you next



Amtrak's California Zephyr Over Afton Canyon
(photo: Jacob Klatt)



Amtrak's California Zephyr in Apache Canyon
(photo: Jacob Klatt)



SP Drag Freight Over Afton Canyon
(photo: Jacob Klatt)



SP Drag Freight On Sherman Hill
(photo: Jacob Klatt)

year!

Continued on page 27



SP Drag Freight On Sherman Hill
(photo: Jacob Klatt)



GEHAMS Member, Larry Saslaw, Displays His Modules of Southern Pacific's Oakland Mole.
(photo: Barry Draper)



**For You Larger Scale Modelers:
S Gaugers of Southern California**
(photo: Doug Wagner)



**R2D2 Graced Us With His Appearance, But
Chewbacca Turned Down Our Request!**
(photo: Doug Wagner)



Home To Central California's



Largest Model Railroad Club

GEHAMS welcomes visitors
on any Saturday, (closed on Dec. 25)
11:00 AM to 1:30 PM,
to view trains operating over
Central California's largest
HO and N Scale layouts.

For more information, please email
carldw@aol.com, phone (661) 331-6695
or visit our web site at gehams.club

By Phil Edholm



The Coast Division has been busy over the last few months. As most know, the Coast is sponsoring the Tech Line, the 2024 PCR Convention in Silicon valley (see article). The division has been working hard to make the Tech Line the best PCR convention in years. With over 40 layouts open, 45 great clinics, amazing prototype tours and more, the tech Line promises to be a convention that should not be missed.

Coast Division Recruiting

The Coast Division has been focused on finding model railroaders and persuading them to try the NMRA. At both of the recent Great Train Shows, in Pleasanton and San Jose, we have set up the PCR recruiting booth and have had a great group of PCR volunteers man the booth. At each event we have been seeking modelers and discussing the benefits of NMRA membership.



In addition to Train Shows, we have been visiting model railroad clubs throughout the Division, presenting the benefits of NMRA membership, the Tech Line convention, and the PCR sponsored \$2,000 scholarship.

The results of these activities have been strong. Thanks to our volunteers and their enthusiastic promotion of the NMRA

and the Coast Division, we have recruited over 40 new members in the last three months. We look forward to seeing the new members at the convention and other Coast events.

We are also promoting the NMRA and the convention in local/PCR hobby shops. Signs have been posted at Just Trains and Poggies Hobbies. These both promote NMRA membership as well as the convention.



March 10th Visit to the Redwood Valley Railway and Golden Gate Live Steamers

Continued on page 30

Coast Division Report, ct'd.

On March 10th, the Coast Division visited the Redwood valley railway in Tilden Park. The RVRV is a 5/12 scale, 15" gauge railroad that runs through the redwood trees above Berkeley. The RVRV team showed the Coasters their daily steam up and maintenance process as well as a detailed shop and barn tour. It was very inter-



esting to see what it takes to both build and run a all-steam railroad on a daily basis. All of the engines at the RVRV are built in house by their team of railroad engineers and craftsmen. After the tours of their facilities, we were able to take a special train ride where we stopped and got run-bys of the train and a second train running on the railroad.

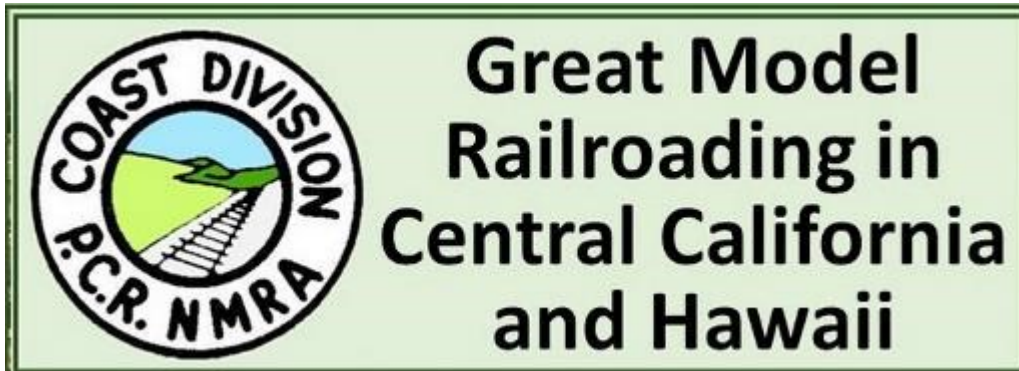


The visit to the RVRV was followed by a visit to the Golden Gate live Steamers. There we rode the 7.5" gauge trains and toured their roundhouse, clubhouse and other facilities. It was a great opportunity for members to explore the challenges and excitement of live steam modeling.



Finally, we had three layouts open in the afternoon for the members to see. They were a great range, from the amazing, detailed HO modeling of Chuck Oraftik and his plans for expansion, John Cockle's operational focused N gauge layout, and Jam Radkey rebuilt Ho scale BNSF Pink Lady, a layout built to operate with a crew of 10-12. This was a great opportunity to see a range of modeling options and to see how a layout can be built and grow. All three of these layouts will be open during the upcoming PCR convention, April 24-28. You can learn more about the layouts that will be open during the convention [HERE](#). You can connect with the Tech Line website [HERE](#).

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VISIT THE COAST DIVISION YOUTUBE CHANNEL



[LINK](#)



There are currently twelve recorded videos comprising nearly sixteen hours of model railroading content. Make sure you have plenty of time!!



Redwood Empire Division Report

By Paul Weiss



We hope all readers of this issue of the *Branch Line* will consider joining the RED for our next Meet in Santa Rosa on Saturday May 18 at 11am. Our Meets have settled into a very enjoyable format, 1-3 keynote speakers, a free catered lunch, a raffle, and Show and Tell. In particular, the Show and Tell has been revitalized by cash prizes, and it isn't a modeling contest exclusively. We'd like to hear your stories, share your memorabilia or favorite/sentimental models, lecture us on history and/or bring your recent projects. Attendees will vote on who wins the \$75 first prize and \$25 second prize, so you may go home well fed and with the prize money in your pocket. We are always pleased when neighbors from other divisions may the trip.



Kent Hinton showed a variety of his 3D-printed parts and models during the Show and Tell at the Winter 2024 Redwood Empire Division Meeting.

Our Division has just lit the pilot light for the 2026 PCR Convention, and this is an early call for volunteers. We really hope people who have never stepped forward to plan a Convention might do so now, a learning and networking experience indeed. Let us know if you're intrigued.

Other news from the RED includes the selection of Verne Alexander as our member of the Year. In what might be a first for our Division and beyond, we decided to let the attendees at our Winter Meet make the selection. Verne is known far beyond his roots in Sonoma County for being an enthusiastic and talented modeler with a sharp sense of humor. Among other accomplishments he has made a large contribution to our CVRR in Northern CA layout, running our car shop and keeping things up to standard in all the different ways. We are all pleased that Verne has been so recognized by the group.

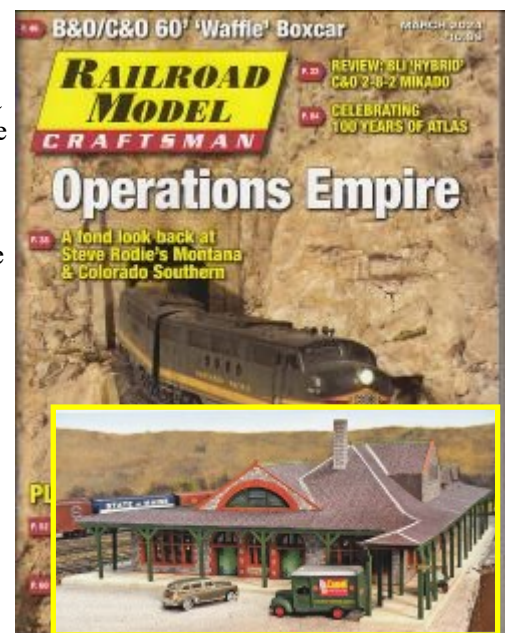


RED Member of the Year, Verne Alexander

Near and dear to my heart, I'd also like to highlight a very recent article in *Railroad Model Craftsman* by our member Doug Nelson, who scratch built a stunningly accurate replica of the triangular Palmer, MA Union Station for the CVRR. As always, it is a reminder of the extraordinary depth and breadth of local talent in our hobby, and how networking can lead to interesting projects indeed. Doug, a faithful Pennsy modeler, likely started 2023 without any reason to believe he would build such a structure which sits at the crossing of the Central Vermont and Boston & Albany in western Massachusetts. We're all better off for the making of these connections, and I happen to know his next masterful contribution is about to be unveiled here. How wonderful.

See you out on the property...
Paul Weiss
RED Superintendent

Continued on page 33



WINTER 2024 R.E.D. MEETING

The rainy weather didn't dampen the spirits of the twenty-one people who attended the Winter 2024 Redwood Empire Division Meeting. Following the opening remarks by Superintendent Paul Weiss and member introductions, the membership voted on the RED Member of the Year. Verne Alexander is this year's RED Member of the Year, and the presentation will occur during the spring meeting.

Moving on, three attendees presented his 3D printed parts and models. Dave Croshere gave a brief history of a hopper car he is constructing for his NMRA Master Model Railroad Certificate. Ben Sochacki discussed his G-scale modeling experience and presented his G-scale video car.

There were three great presentations. Dan Obermeyer showed his plans and in progress building of his impressive layout in Lake County. Michael Litant gave an excellent overview of the many YouTube videos available about all facets of model railroading. Kent Hinton expanded on this 3D Show & Tell presentation with an in-depth description of current 3D printing technology available to model railroaders.

Lunch was served courtesy of the RED. The meeting wrapped up with the raffle and cash presentations to Show & Tell participants.



Continued on page 34

Lunch Courtesy of the RED

The Redwood Empire Division provided a delicious free lunch to everyone at the meeting, A big "Thank You!" to Mary-Moore Campagna and Paul Weiss for organizing this meeting's lunch.





Sierra Division Visits Sierra Central

(Sacramento Model Railroad Historical Society)

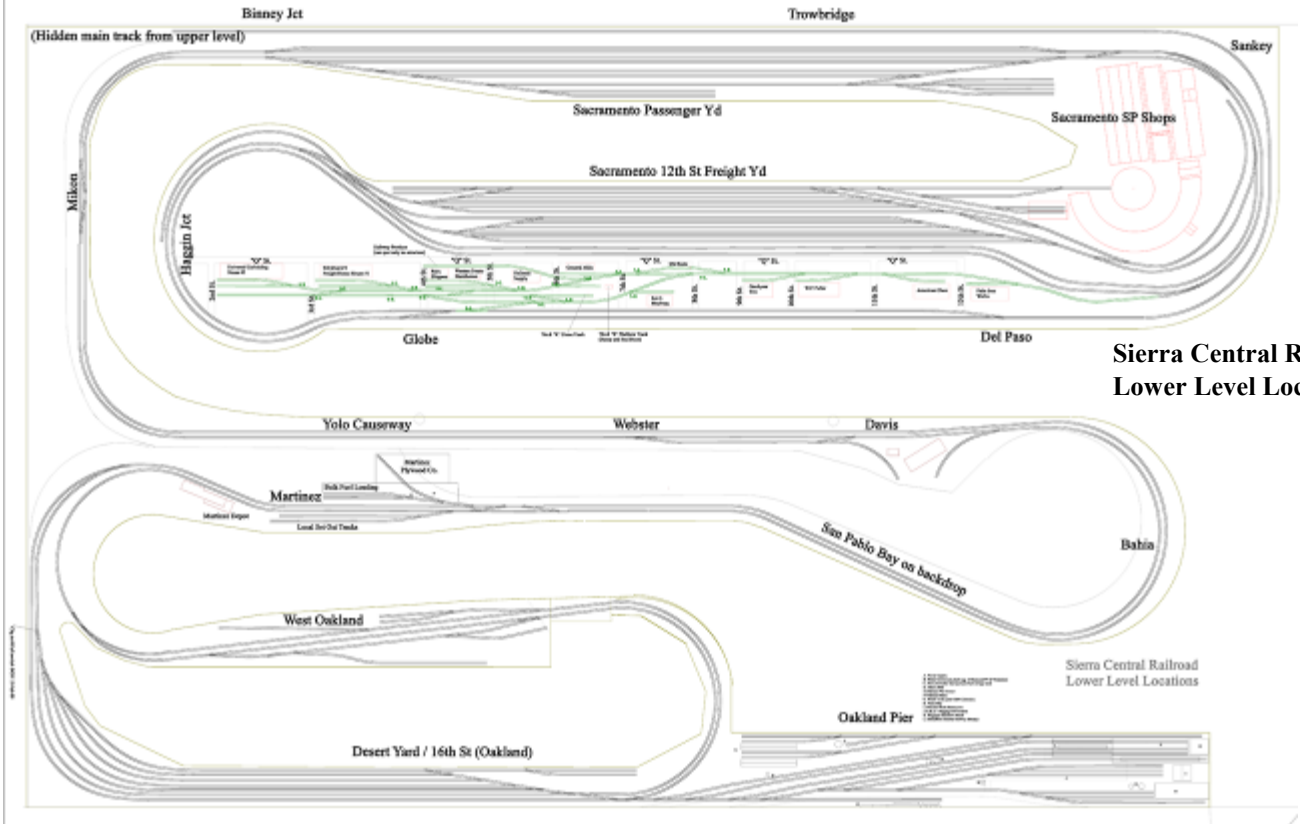


Sacramento Model Railroad Historical Society is dedicated to advancing understanding of railroading and its history and impact on the development of our nation as well as railroad operations and technical skills through model railroading. The society began as the the Sacramento Model Railroad Club in 1948 and was later incorporated as a 501(c)(3) nonprofit organization in 2000.

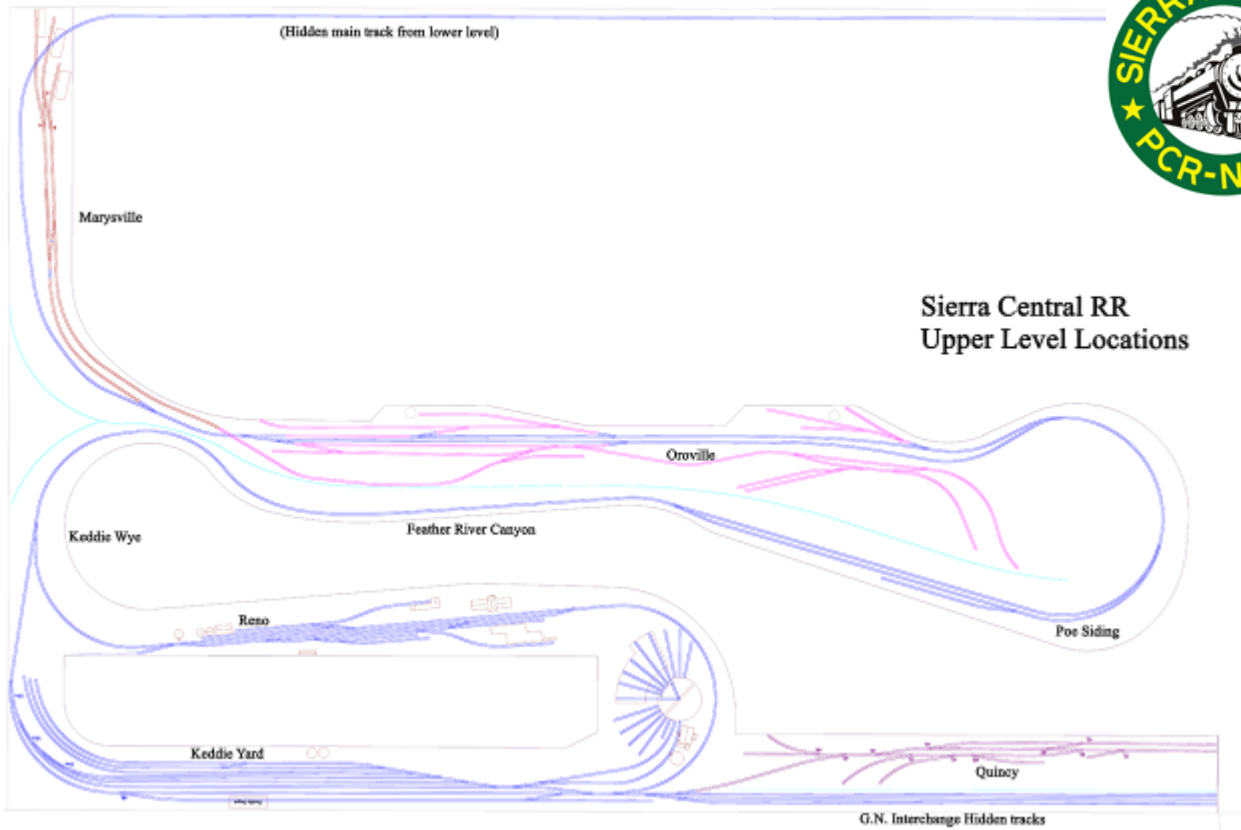
The HO scale Sierra Central Railroad depicts the Southern Pacific's California Pacific or "Cal-P" line from Oakland to Sacramento and the Western Pacific from Sacramento through the Feather River Canyon to Keddie.

Continued on page 36

Sierra Division, ct'd.



Sierra Central RR
Lower Level Locations



Sierra Central RR
Upper Level Locations

Continued on page 37

Sierra Division, ct'd.

Street industrial district in Sacramento.

Signature scenes on the SP include the historic Davis depot, the Yolo Causeway, and the passenger station, locomotive shops, classification yard, and R



12th Street Yard - Sacramento
(Note the trees visible in the cover photo are not yet "planted" in this scene.)



R Street - Sacramento
(Again, no trees between R Street and 12th St. Yard.)
Photo : Chip Meriam

On the WP, you'll find Marysville, Oroville, Table Mountain, the Honeymoon Tunnels in the Feather River Canyon, Keddie Yard, and the Spanish Creek trestle widely known as "Keddie Wye" as well as a branch line to Quincy.



Table Mountain - Oroville
Photo : Chip Meriam



Feather River Canyon - Poe Siding
Photo : Jim Collins



Bird's Eye View of Keddie Wye
Photo : Jim Collins



Continued on page 38

Sierra Division, ct'd.

The February 10 in-person meet included our annual OP session on the Sierra Central at the Sacramento Model Railroad Historical Society. As in the past, Sierra Division members were paired with regular SMRHS operators to handle various local jobs, scheduled turns, and through freight and passenger traffic. This is always a fun event. PLUS, it winds up with a barbecue lunch!



Michael Eldridge (right) Jokes with Mike Rocque
Photo : Dave Putnam



Ed Powell (left) and Mike Hamlin at Oroville
Photo : Dave Putnam



**Brian Witt Follows Trains on the Model Board
In the Dispatcher's Office**



Brandon Salas Working Poe Siding
Photo : Dave Putnam



Saturday, April 13

10:30am Sierra Division Zoom Meeting

Saturday, April 20

10:00am Sierra Business meeting

Wednesday, April 24

9:00am PCR 2024 Convention, The Tech Line, Silicon Valley, CA

Thursday, April 25, 2024

9:00am PCR 2024 Convention, The Tech Line, Silicon Valley, CA

Friday, April 26, 2024

9:00am PCR 2024 Convention, The Tech Line, Silicon Valley, CA

Saturday, April 27, 2024

9:00am PCR 2024 Convention, The Tech Line, Silicon Valley, CA

Sunday, April 28, 2024

9:00am PCR 2024 Convention, The Tech Line, Silicon Valley, CA

Sunday, August 4, 2024

Surfliner 2024 NMRA National Convention

Monday, August 5, 2024

Surfliner 2024 NMRA National Convention

Tuesday, August 6, 2024

Surfliner 2024 NMRA National Convention

Wednesday, August 7, 2024

Surfliner 2024 NMRA National Convention

Thursday, August 8, 2024

Surfliner 2024 NMRA National Convention

Friday, August 9, 2024

Surfliner 2024 NMRA National Convention

Saturday, August 10, 2024

Surfliner 2024 NMRA National Convention

Sunday, August 11, 2024

Surfliner 2024 NMRA National Convention

Wednesday, October 16, 2024

SP Historical and Technical Society Convention

Thursday, October 17, 2024

SP Historical and Technical Society Convention

Friday, October 18, 2024

SP Historical and Technical Society Convention

Saturday, October 19, 2024

SP Historical and Technical Society Convention

Continued on page 40

Time Table, ct'd.

Saturday, November 2, 2024

International Rail Fair

Sunday, November 3, 2024

International Rail Fair

Saturday, November 9, 2024

NMRA Modular Weekend

Sunday, November 10, 2024

NMRA Modular Weekend

Where the Art of Modeling Meets Technology



PCR Convention 2024 - Silicon Valley, CA

April 24 - 28, 2024
 Sonesta San Jose Hotel
 777 Bellow Drive
 Milpitas, CA



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**LONG BEACH, CA
 2024**

AUGUST 4 - 11 

LONG BEACH, CA

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Just because you can't make it to a national convention doesn't mean you have to miss out. Right now the NMRA's Kalmbach Memorial Library has over 50 DVDs of clinics presented at national conventions from 2002 to 2010. Each is available for NMRA members to borrow for the cost of processing and postage.

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Then, get that popcorn ready.

Continued on page 41

Monthly Activities

First Thursday - 10:00 AM / Siskiyou Model RR Club. / Currently meeting at member's homes. Info: Tom Brass, (530) 842-4921,

First Saturday 10:00 AM / San Leandro Historical Railway Society (HO, O, G), Monthly meeting / 1302 Orchard Ave, San Leandro, CA / Eugene 510-963-2985 / Info: info@slhrs.org.

First Saturday 11:00 am to 12:00 PM / Golden State Model Railroad Museum / East Bay Model Engineers Society (O, HO, N, Narrow Gauge, Traction) / Point Richmond, CA / Club Phone 510-234-4884 or info@gsmrm.org. Free coffee and doughnuts.

First Saturday 12:30 PM / European Train Enthusiasts (ETE) Sacramento Chapter (HO, HOM, N) 3600 J Street, Sacramento, CA. (entrance from 36th Street near East Sacramento YMCA). Social and H0 layout running 12:30 to 2:00 PM, then program/show and tell, followed by 2:30 PM business meeting. / Contact: Dusan Petras (650) 300-9504 or Jim Fischer (916) 965-7117, e-mail: dusanpetras@aol.com / See the website for additional information: www.ete.org.

Second Tuesday 7:30 PM / Empire Builders Model Railroad Club (HO) 3318 School St, Oakland, CA / e-mail: president@ebmrc.org

Second Wednesday 7:30 PM / Golden Empire Historical and Modeling Society (HO&N) Bakersfield, CA / Doug Wagner, e-mail: carldw@aol.com or 661-589-0391 / Club phone: 661-325-5820

Second Saturday 10:00 AM / Tehachapi Loop RR Club / Tehachapi, CA / Tom O'Brien, e-mail: threerail@earthlink.net 661-822-1546

Second (and Fourth) Saturday 10:00 AM to 3:00 PM (and every Wednesday 10:00 AM to 12:00 PM) • Admission: Free / Bay Area N-Trak Model Railroad Club (N) Wells Fargo Express Room, Southern Pacific Railroad Depot, 900 Loring Ave., Crockett, CA • Map / Donations are welcome. / Contact: Jim Gray, send text to 925-260-5804 or e-mail to gray-marks@hotmail.com

Second Saturday 1PM-4PM / West Bay Model Railroad Association, Open House, We run trains run for our visitors, 1090 Merrill Street, Menlo Park, CA / e-mail westbaylines.com

Second Saturday 1:00 to 5:00 PM / European Train Enthusiasts (ETE) San Francisco Bay Area Chapter (HO) Location varies / Contact: Brian Hitchcock, brianhitchcockdba@gmail.com / See the website for additional information: www.ete.org.

Second Saturday 1:30 PM / Carquinez Toy Train Operating Museum Business Meeting , 645 Loring Ave (Across from C&H Sugar), Crockett, CA. MAP

Second Saturday 3:00 - 6:00 PM / California Central Club (HO & HOn3) / Old Agnew Station, 4185 Bassett St, Santa Clara, CA / Subject to change, contacting us in advance of your visit is highly recommended at: ccmrc1961@gmail.com

Second & Fourth Weekends / Swanton Pacific Railroad Society (19") Santa Cruz County, CA / Ed Carnegie, e-mail: ecarnegie@calpoly.edu or 805-756-2378

Mid-Month Weekends / Bitter Creek Western RR (Live Steam) Arroyo Grande, CA / Dan Andrews, e-mail: danandrews@charter.net or 805-481-0419

Third Monday 7:00 PM / San Luis Obispo Model Railroad Association (all) Oceano Depot, CA / Dennis Pearson, e-mail: info@sломra.org or 805-929-3062

Third Tuesday 7:00 PM / Visalia Electric Model Railroad & Historical Society / Meets at Ryan's Place Restaurant, 3103 South Mooney Blvd, Visalia, CA / Cecil Eppler, e-mail: cecil_eppler@sbcglobal.net

Third Wednesday 8:00 PM / West Bay Model Railroad Association, Monthly Business Meeting, 1090 Merrill Street, Menlo Park, CA / e-mail westbaylines@gmail.com

Third Friday 7:00 - 11:00 PM / Black Diamond Lines Model Railroad Club Operating session (HO) / Antioch, CA / Info: info@blackdiamondlines.com / Club phone 925-779-1964

Third Saturday 9:00 AM - 12:00 PM Noon / San Joaquin Central Operating Session (HO) / Fresno, CA / Chuck Harmon, e-mail: harmonsta@aol.com or 559-299-4385. It's April 1949 on SP's Donner Pass and fictitious SJC. An advance courtesy contact is appreciated. Send e-mail to be added to mailing list.

Third Saturday / Sacramento Modular Railroaders Operating Session (HO) / Sacramento, CA / Scott McAllister, e-mail: scooter923@att.net

Fourth Wednesday 7:00 PM / Coast Toy Train Club / Wood Glen Hall, 3010 Foothill Rd (at Alamar), Santa Barbara, CA / Lots of collecting in S, O, and Standard gauges. / Contact: Ken Kelley, e-mail: kenatttr@thirdrail.com

Fourth (and Second) Saturday 10:00 AM to 3:00 PM (and every Wednesday 10:00 AM to 12:00 PM) • Admission: Free / Bay Area N-Trak Model Railroad Club (N) Wells Fargo Express Room, Southern Pacific Railroad Depot, 900 Loring Ave., Crockett, CA • Map / Donations are welcome. / Contact: Jim Gray, send text to 925-260-5804 or e-mail to gray-marks@hotmail.com



Alameda County Central Railroad Society

ACCRS is an HO and O scale club with layouts in a 30x100 building on the Alameda Co. fairgrounds in Pleasanton. With over 60,000 annual visitors, ACCRS is a great showcase for the hobby. Layouts reflect Alameda County and California and are continually improving and updating. Open for Fair events and Fridays, 6-9 PM. Lowest dues in the area.

Contact: Gary Lewis 925-455-8135

Email: glgslewis@comcast.net

Web: www.pleasantonmodelrr.org/index.html

Amador County Model Railroad Museum

The ACMRRM is located at 13828 Gold Mine Road, #1, Pine Grove, CA. Gold Mine Road intersects with Hwy 88 in Pine Grove. Our non-profit association is open to the public from 10 AM to 5 PM, Friday through Sunday during Winter months and Wednesday through Sunday during the Summer. Work sessions are held every Tuesday starting at 10 AM. Our scenic DCC HO-scale layout depicts the lumber and gold mining history of Amador County. Operations include the Amador Central short line as well as the railroads of California's Central Valley including terminals at Stockton and Sacramento.

Contact: Robert Piety, 209-296-3587 email rdpiety@sbcglobal.net

Antioch Model Railroad Club

The Black Diamond Lines is an HO Club located at 425 Fulton Shipyard Rd, Antioch. The BDL has been in continuous operation since 1981. We meet Tues. (work night) & Fri., 6:00pm to 8:00pm. Visitors can always find trains running every Friday club night. For more information, e-mail info@blackdiamondlines.com or visit us on the web at www.blackdiamondlines.com and we can be found on Facebook and YouTube.

Bay Area Ntrak Model Railroad Club

BANTrak MRC invites N scale modelers to visit us at the Wells Fargo Express Room, Southern Pacific Railroad depot, 902 Loring Ave., Crockett, on Wed. and Sat., 10 AM to 3 PM. Contact: Bob Lewis, 925-283-6838
E-mail: BobLewis1@sbcglobal.net.

Bay Area S Scalers

BASS is a group of modeler railroaders in the San Francisco Bay Area focused on scale modeling in 1:64 scale. BASS is a round robin club, typically meeting in a member's home on the third Saturday of odd numbered months. Meetings may include a mini-clinic, or showing progress on models or a layout. We also have a modular layout that has been displayed at public events. Contact: Michael Eldridge (meldridge2000@gmail.com).
Web: www.bayareasscalers.org.

California Central Model RR Club

The CCMRC is located in the old Agnew depot (Santa Clara) of the Southern Pacific (4185 Bassett St.) directly across from the Lafayette St. gate of Agnew State Hospital. The theme of the 15' x 50' HO club is western railroading running from the Bay Area to Southern Oregon. We meet Fri., 7:30 to 11 PM. Operating sessions the 1st and last Fri. of the month. Contact: 408-988-4449 (operating nights), or Wayne Cohen, 408- 779-0707.

Carquinez Model Railroad Society

CMRS models the line from Oakland to Sparks with a double track mainline and many well-known lineside industries on three levels. The layout is in the 36 x 60 foot main room of the recently renovated former Oddfellows building that dates back to the 1890's. New HO_{n3} branch-line coming soon. Entire railroad is NCE DCC-based with JMRI WiFi throttle support. We are open to the public bi-monthly with weekend open houses. Please see our web site (www.cmrstrainclub.org) and our listings in the PCR Master Calendar for more information. The club is open for perspective members and visitors during our Wednesday night work nights, 5PM to 9PM. We are located on the second floor at 645 Loring Ave., Crockett, CA 94525. Contact: Ron Lehmer, president@cmrstrainclub.org or Steve Huffstetter, secretary@cmrstrainclub.org. Club number 510-722-3025

Coastal Valley Lines Model Railroad Club of Sonoma County, LTD

Coastal Valley Lines Model Railroad Club of Sonoma County, LTD (Coastal Valley Lines) is an association of novice-to-expert model railroaders from the Sonoma County area, who operate a digitally command controlled (DCC) HO scale modular railroad at public and private events, and gather for clinics, work sessions and monthly meetings. Coastal Valley Lines is incorporated in the State of California with its primary purpose of educating the public about model railroading as a family hobby and is a not-for-profit 501(c) 3 organization with elected officers and bylaws. Additional information can be found at cvlrr.com.

Continued on page 43

Eel River Valley Model Railroaders

The Eel River Valley is an HO club with a NWP-layout series of modules under construction. We meet Fri., 7:30 PM at the Humboldt County Fair Grounds Commercial Building, NW corner, Ferndale. Contact: Jack Jensen, 707-845-2823, 3313 Union St., Eureka, CA 95503 or Ron Plies, 208-229-7107, 12818 N. 11th Ave., Boise, ID 83714.

Elsie

The Left Coast (Elsie) HOn30 group invites anyone interested to join us. We use existing standards for module construction but are not merely a modular group. Contact: Al Sandrini in Bakersfield, 661-664-8614 or Ken Lunders in Cupertino, 408-777-9572.

European Train Enthusiasts

ETE (www.ete.org) serves modelers, railway fans, related organizations, and the community through public venues, operating layouts, the annual convention EuroWest, the chapter newsletter, and the quarterly national journal, the ETE Express. ETE is open to all who have an interest in European railways, whether full size or scale model. The SF Bay Area Chapter meets the second Saturday of the month from 1-5pm in various locations around the bay. Contact BillKeaney (650) 355-7231 or billkeaney@comcast.net.

Golden Empire Historical & Modeling Society

Bakersfield GEHAMS, founded in 1987 and in their current location since March '94, is dual-scale with a 30' x 100' HO, and a 18' x 80' N based on SP's route from Bakersfield to Mojave with Tehachapi Loop. Though under construction, mainlines are in with monthly operations. Contact: Doug Wagner, 661-589-0391 email: carldw@aol.com GEHAMS web: www.gehams.org

Golden State Model Railroad Museum – East Bay Model Engineers Society

900-A Dornan Drive in Miller-Knox Regional Park at Point Richmond. Weekly public hours are on our website. To meet members, inquire about membership and behind the scenes tours come 1st & 2nd Friday evenings of the month between 7:30 and 10 PM.; behind the scenes tours also available most Wednesdays 11 AM to 3 PM. New members are welcomed in all Scales – O, HO and N, including narrow gauge and traction. For general information check the website or call (510) 234-4884 (recording); for membership inquiries call 1st or 2nd Fridays 8-10p.m. (510) 236-1913. For other information or to schedule special events, Email info@gsmrm.org. Website: www.gsmrm.org

Humboldt Bay & Eureka Model Railroad Club

The HB&EMRC meets at their clubhouse and layout at 10 West 7th St., Suite #C in Eureka, on Sat., 7:00 PM. Visitors are always welcome. Business meetings 1st Sat of month, 7:30 PM. Contact: David Berriman P.O. Box 915, Arcata, CA 95518 707-825-7689

Monterey & Salinas Valley Railroad Museum

26 Station Place - Salinas, CA 93901
The Monterey and Salinas Valley Railroad Museum is dedicated to creating & maintaining a Railroad Museum in Salinas with an emphasis on the historic, contemporary and future value of the Railroad to the Salinas Valley and Monterey Bay Regions, providing experiential educational opportunities for children of all ages enhancing the core curriculum and inspiring civic involvement in our communities.

Open first weekends of each month 10AM - 4PM
831 789 8097

www.msvrr.org
info@msvrr.org

Napa Valley Model Railroad Historical Society

Located at The Napa Valley Expo, (fairgrounds), 575 Third St., Napa, our railroad runs from Napa to Ukiah with off line connections to Stockton and Portland, has 700 feet of main line, and large classification yards at each end. The layout is never finished, as we are always rebuilding and improving! Era is 1940 to present. Member-owned rolling stock stresses reliability and realism. We meet Fri. 7:30 PM to 12, with formal runs the 2nd Fri. of the month. Info: John Rodgers 707-226-2985 E-mail: Napa-John@napanet.net Web: www.nvmrc.org

Nn3 Alliance

An Internet-based fellowship of over 700 members in nine countries who model narrow gauge in "smaller scales". The term "Nn3" is used generally to describe 3', 3'6", and meter gauges, modeled in N or 2MM Scales. Members include local groups in the USA, UK and Europe whose portable exhibition layouts and modules regularly appear at conventions and shows. The "corporate" entity of the group - The Nn3 Alliance - created and published "The Nn3 Handbook", 140 pages with 400 illustrations, covering all aspects of small-scale narrow gauge, which remains the standard reference.

Web: www.Nn3.org
<https://groups.io/g/Nn3>

Enjoy the
fellow-
ship and
learning
experi-
ences of
a club
near you

Continued on page 44

Sacramento Model Railroad Historical Society

Established in 1948, the SMRHS is located at 1990 Grand Ave., Sacramento. Modeled as the Sierra Central RR, both HO and HOOn3 layouts. HO layout is being rebuilt to depict SP/WP prototype. Open Tues. and Fri. nights, 7:30 PM. Contact: 916-927-3618
 Email: d.megeath@comcast.net
 Web: www.smrhs.com

Sacramento Modular Railroaders

Most of our events are operating sessions, where we make up trains in our large switch yard, and send road crews out to switch cars into and out of industries at the towns along the main line. The club owns a large main yard, the corner modules, some special modules, and some rolling stock. Members own their own modules and rolling stock. Contact: memberhip@sacmodularrailroad.com

Sacramento Valley Live Steam Railroad Museum (SVLSRM)

The SVLS was founded in 1968 and is located in Hagen Community Park, Rancho Cordova, CA. Our initial 1500 feet of track has expanded to over 6300 feet of mainline and sidings. Approximately 1500 feet is dual gauge 4 3/4" and 7 1/2". We can accommodate equipment ranging in size from 1 inch scale (standard gauge) to 5 inch scale (2 foot narrow gauge), the most common scale being 1 1/2". Public run days are on the 1st Saturday and 3rd Sunday of each month during our operating season

San Joaquin Valley Garden Railway Society

The SJVGRS was founded in July of 1995 to promote the joy of building and operating Garden Railways. We have grown to over 70 families in the Central Valley, meeting monthly at members' homes to spend the afternoon sharing our hobby, weather permitting. Dues: \$25 a year for a family. Contact info: Richard Emerson 559-439-7173
 E-mail: emerson.r@worldnet.att.net
 Web: <http://home.att.net/~sjvgrs/train/>

San Joaquin Valley Toy Train Operators

We are an all scale train club. We have members in scales from Z to G. Whether you are someone who likes to run toy trains in circles or model an exact date, railroad or scene or anything in between you are welcome. Everyone who likes trains is welcome. You don't need to own any trains. We have two portable layouts that we set-up at public locations. We have set them up at care facilities, Amtrak stations, train shows and other places. We also have outside club activities. We have gone on the train to Sacramento and the Sacramento Rail Museum. We've ridden the train at Railtown 1897 SHP and had a private tour there. Also we have visited home train layouts and will have many other activities in the future. Our meetings are at the Scouts Hall, 4717 Elm Street, Denair, CA at 1:30 PM (doors open at 12:30) on the first Sunday of each month. Holidays or other events can change that. We always get there by 1:00 PM to visit and see what others have brought to show. For more information please call Ed Cathcart at 209-479-4432

San Leandro Historical Railway Society

The SLHRS models the SP from Oakland/San Leandro to just east of Norden using the tri-level Donner Pass plan featured in the March '98 Model Railroader. It's housed in the former S.P., San Leandro depot, located at 1302 Orchard Ave., San Leandro (just off Davis St.). Work sessions Sat. 9:00 AM - 1:30 PM and Tues. 7:30 - 9:30 PM, business meetings the 1st Fri. at 7:30 PM. Contact: Eugene Brichacek, 510-963-2965
 email: embrichacek@gmail.com

San Leandro Historical Railway Society

The SLHRS models the SP from Oakland/San Leandro to just east of Norden using the tri-level Donner Pass plan featured in the March '98 Model Railroader. It's housed in the former S.P., San Leandro depot, located at 1302 Orchard Ave., San Leandro (just off Davis St.). Work sessions Sat. 9:00 AM - 1:30 PM and Tues. 7:30 - 9:30 PM, business meetings the 1st Fri. at 7:30 PM. Contact: Eugene Brichacek, 510-963-2965
 email: embrichacek@gmail.com

Enjoy the fellowship and learning experiences of a club near you



Continued on page 45

San Luis Obispo Model Railroad Association (SLOMRA)

The SLOMRA is a multi-scale modular group with active N and HO scale layouts. The goal of our nonprofit association is railroad education and local history through public display of our modules. Our shows usually include G-gauge, tinplate, and even LEGO trains. The monthly meetings include model and prototype activities, videos and discussions. The SLOMRA is open to new members who have a love of trains. The general meeting is the third Monday of every month at 7:00pm at the Oceano Depot. For more information visit www.slomra.org or email info@slomra.org.

Silicon Valley Lines

The SVL is located at 148 E. Virginia St., San Jose. We meet Fri. 7:30 to 11:30 PM, with business meetings the 1st Fri. and operating sessions the last Fri. of the month. Our HO layout utilizing DCC for realistic operations, computer-generated train orders and radio-based dispatching. E-mail: svl@siliconvalleylines.com Web: www.siliconvalleylines.com

Siskiyou Model Railroad Club

Currently we are meeting at a member's home on the first Thursday evening of the month. Contact Tom Brass as 530-842-4921 Currently a few members have been getting together on Tuesday mornings for various activities.

South Bay Historical Railroad Society

SBHRS invites interested modelers to visit us in the historic Santa Clara CalTrain Depot, 1005 Railroad Ave., Santa Clara, Tues. 5:00 to 8:00 PM or Sat. 10:00 AM to 3:00 PM. Contact: 408-243-3969. Web: www.sbhrs.org.

South Coast Society of Model Engineers

The club consists of enthusiasts of all scales and prototypes living in the Santa Barbara area, and has a collection of railroad books and videos for loan to members. The club has no layout but activities include weekly operations and work sessions at member layouts, as well as occasional club field trips. We meet every 3rd Tues. at 7:30 PM, at Woodglen Hall, 3010 Foothill Road, Santa Barbara. Junior members welcome. Contact: Secretary David Kuehn, email: davidkuehn@cox.net. Facebook: <http://www.facebook.com/group.php?gid=163470062239>

The Tidewater Southern MRC Inc. & Tidewater Southern Railway Historical Society Inc. We are Located in Building 1 at the San Joaquin County Fairgrounds (1658 S Airport Way, Stockton, CA 95206), We have both HO and N scale layouts housed in a 2,400 sq. ft. alcove. The HO scale layout represents the former Tidewater Southern branch line of Western Pacific. We meet every Saturdays from 9am - 5pm except for major holidays and run trains on the last Saturday of the month. Admission is free! Email us at: tidewatersrhs@gmail.com for our schedule.

Tri-city Society of Model Engineers

The TCSME located in the Niles Plaza is currently looking for new members to help build and operate both an N Scale and an HO layout focused on Fremont and surrounding areas. We meet Fridays 7:30-9:30 PM. The depot is located at 37592 Niles Blvd, Fremont, CA 94536. Please visit our web site at <http://www.nilesdepot.org/> <http://www.nilesdepot.org>

Walnut Creek Model Railroad Society The WCMRS located at 2751 Buena Vista Ave, Walnut Creek, is open on last Friday of the month from 8:00 to 10:00PM for operations. Fares are \$3.00 for 6-12 and seniors over 60 and \$5.00 for adults. Membership is always open to interested HO modelers. Contact: 925-937-1888 (recorder); Web: www.WCMRS.org. "Like Us" on Facebook (www.facebook.com/wcmrs). Please refer to www.wcmrs.org for the dates and times of our Annual, Weekend and Friday evening shows .

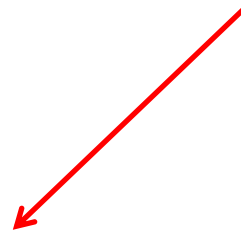
West Bay Model Railroad Association

The West Bay Model Railroad Association is accepting new members; all skills are invited. Construction and scenery are now complete on our DCC 2-level HO layout designed for operations; work on signaling is in process. Work sessions are Wednesday evenings and Saturday afternoons. Prospective members and visitors are always welcome. We run trains for visitors monthly on second Saturday afternoons. Business meetings are at 8 pm on the third Wednesday of the month, and operating sessions are on Saturday of the following week. We're located a few hundred feet south of the Menlo Park Caltrain station, in the former baggage building, at 1090 Merrill St., between the station and Ravenswood Ave. For more information, visit wbmrra.ning.com and facebook.com/wbmrra. Or e-mail westbaylines@gmail.com.



Enjoy the fellowship and learning experiences of a club near you

IMPORTANT !!!!



Have you changed your address or other membership information?
Notify Headquarters
Email: nmrahq@nmra.org
Phone: 423-892-2846 (8am—4pm ET)

We not only welcome your input here at the *Branch Line*, we actively encourage it!

In fact, may we say that we go so far as to solicit your input?

If you have a small article you would like to submit for publication, or even just an idea for an article, please let us know. We will be happy to work with you.

Just contact our editor, Chip Meriam, at:

chipmeriam@comcast.net

We're looking forward to hearing from you!



NMRA's Partnership Program



PARTNERSHIP PROGRAM

NMRA members can log in and click on the **Benefits** tab to view the **NMRA Partnership Program**. Please patronize all of our partners for some fantastic discounts as an NMRA member!

Bespoke Rail
CatzPaw Innovations
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Cowcatcher Magazine
Daylight Sales (Merchandise)
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Deluxe Materials
Diorama Hobbies
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Evan Designs
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Fusion Scale Graphics
Gatorfoam
Great Decals!
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Railroad Graphics

Hot Wire Foam Factory
K.I.S.S Method, Inc.
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Logic Rail Technologies
MAC Rail
Mainline Model Railroad
Products, LLC (Hobby Shop)
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Mine Mount Models
miniprints
MRC (Model Rectifier Corp)
Model Train Catalogue
Modelers Decals & Paint
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ITLA Scale Models*

[**New Partners in RED***]

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Trainmasters TV/Model
Railroad Hobbyist Store
TRAINZ.com
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Yelton Models

February 2024

Partnership Program



National Model Railroad Association, Inc.

Membership Renewal Notice

Name:				
Address:				
City:		State:		Zip:
Phone:		Birth Date:		Scale:
Email:	Occupation:			

Membership	1 Year	2 Year	3 Year	Total
Member with Printed Magazine Subscription – All Rights & benefits, digital NMRA Magazine access and the Printed Magazine. (26 cents a day!)	\$92.00	\$184.00	\$276.00	
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Family – Spouse or minor child of above member. No magazine, no voting rights, not allowed to hold office. Name: _____ Email: _____	\$10.00	\$20.00	\$30.00	
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Membership				\$
General Donation				\$
Merchandise				\$
Region Subscription				\$
Total				\$

If you would like to set up auto renewal, pay with PayPal or make payment arrangements please call the office to speak with a staff member: 423-892-2846. Thank you for becoming a member of the NMRA!

Please make checks payable to NMRA

We accept MC, Visa, Discover & American Express.

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Expire Date:

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NMRA Merchandise				
Item	Size (Select Size: Circle)	Qty	Price (S/H Included)	Total
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Black Golf Shirt	2XL 3XL 4XL		\$50.00	
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Grey Golf Shirt	2XL 3XL 4XL		\$50.00	
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HO Scale Gauge			\$7.00	
Sn3 Scale Gauge			\$7.00	
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P. O. Box 1328

Soddy Daisy, TN 37384-1328

Email: HQ@NMRA.ORG

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