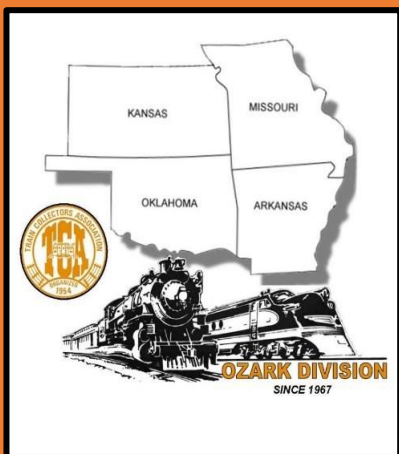




Ozark Division 2nd Quarter 2026

Included in this quarter's Ozark Division Newsletter are two articles. One is Part II of my recreation of a Lionel D-148 Dealer Layout. The second article describes set up tips and experience with Lionel's new Base3/Cab3 controller. We realize that we have neglected Lionel's new electronics and this is our first attempt to resolve that oversight. The first article describes the issues I have experienced building the layout on two-inch Styrofoam. This the first time I have work with a Styrofoam base for may layout and I experiencing some issues! Finally, I hope some of you have had a chance to view the UP 4014 locomotive as it has covered quite a lot of our division territory recently. Happy toy training to all.

Greetings Ozark Division train operators and collectors!

The cross country tour of the Union Pacific Big Boy #4014 is winding down and real trains have been in the news for most of the summer. Several railroads are painting locomotives for the America 250 celebration and models of these are available from several manufacturers. With all the action on the real railroads, I expect our hobby to continue to grow as it has been growing since 2020. Please take time to participate in your local chapter's meets and other events or travel to a train show. There are a lot of great people to meet in this hobby and plenty of activities coming down the pike!

Please don't hesitate to contact any of your Ozark Board members with your ideas to improve our organization. And thank you to all who already reached out!

Darin Grant

Ozark Division President

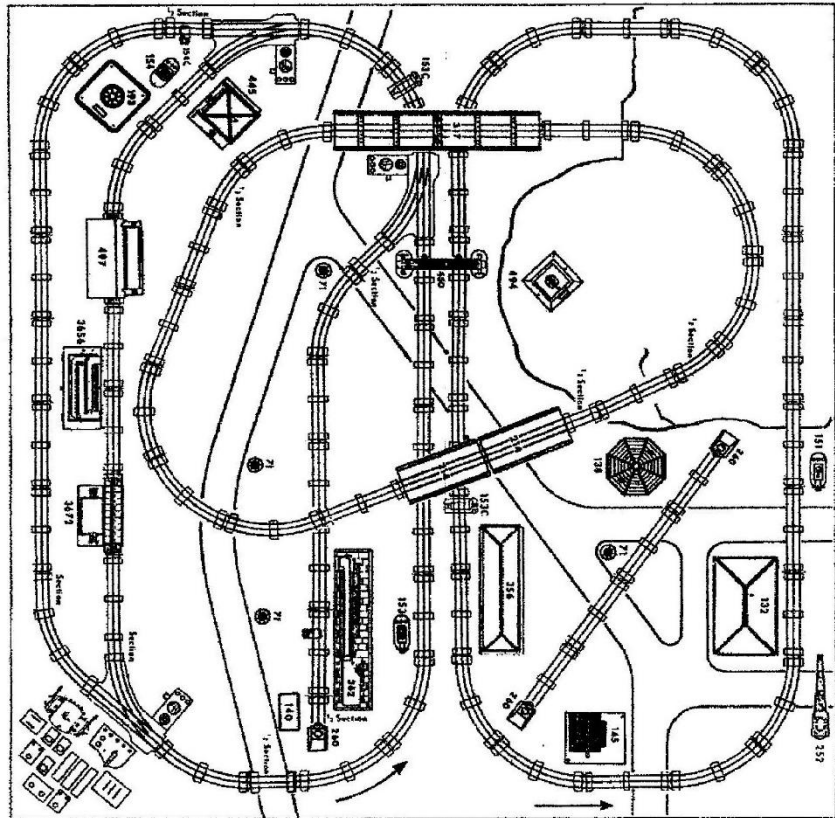
The Recreation of Lionel Train Display D-148 Part II

Don Miller 06-59842

Last newsletter discussed disassembly and disposal of the old Dakota Southern RR. The article also discussed my desire to build a Dealer's layout from Lionel's selection of Dealer displays Lionel made for displaying their trains in dealer showrooms. The D-148 display was sold to dealers in the mid to late 50's. This was the time I received my Texas Special for Christmas in 1955. Although not an exact replica of the 1955 version of the layout, I am attempting to use trains and accessories from that era.

At this point, Sam and I are head long into completing the control portion of the display. You can see most of the accessories, all that have controllers more complex than a push

button are located on the same 4' x 8' section as the transformers (ZW and LW). Looking at the track diagram that Lionel included with the D-148 display the transformers and controllers are all on the left half of the display. I am sure they did this to reduce the number of wires that need to be connected between the two halves of the display. The transformers are both in the bottom left-hand corner of the first section. I have no idea how they made the transformers fit. Looking at the picture on



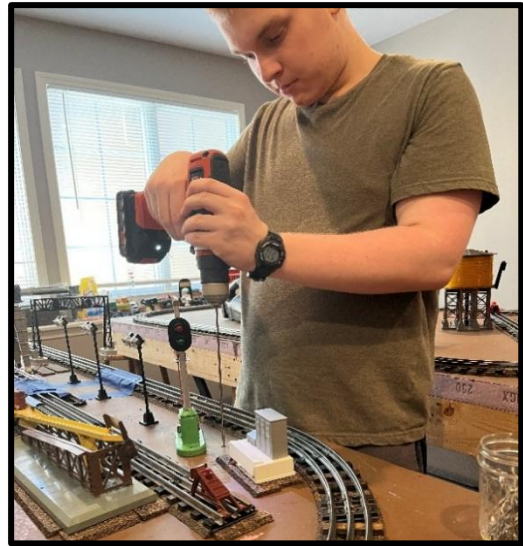
the right you can see that the ZW is way too small. Well, I needed to make some changes to make everything fit! I decided to put a KW transformer in the lower right corner of the display.

In part I, the 2" Styrofoam was glued to each side of the display. The Styrofoam has presented several challenges Over time anything screwed into the Styrofoam will eventually lose its grip. So, I have tried several ways to attach things to Styrofoam. My

experience was that most of my smaller drill bits were too short to drill through 2" of Styrofoam. I was able to find bits at the hardware store that are about one foot long. On the right you see Sam drilling a hole to secure the block signal with a one-foot-long drill bit. Then, Sam drilled a hole for a screw small enough to fit through the accessory and long enough to pass all the way through the Styrofoam. We attached a washer and nut under the Styrofoam. My hobby shop



uses liquid nails to support trees that are just shoved into



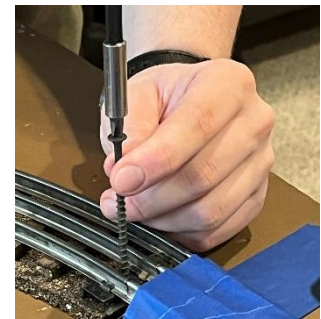
Styrofoam. I have not tried this at this point, but it sounds like a good idea. Attaching the track was another issue. I used some old cork roadbeds that I got from a friend. We traced the center line of the track and glued the

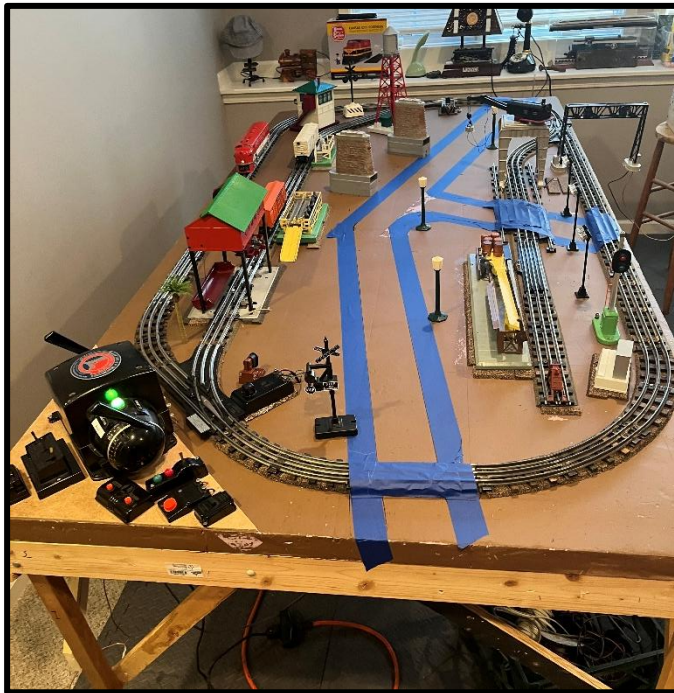
roadbed to the table with Elmer's glue. I used all the older roadbeds first. The old roadbeds were brittle, so I cut darts in the curved roadbeds. This worked quite well. (You probably have noticed the water bottles under the table. We use the bottles to apply pressure to the roadbeds as the glue Dried.)



You may remember from last quarter's article that the Styrofoam is supported by 1" x 4" boards spaced about a foot apart. Where the track was above a board, we attached the track to the table by drilling #8 x 3" drywall screws through the track ties, roadbed, Styrofoam into the 1"x 4" board underneath.

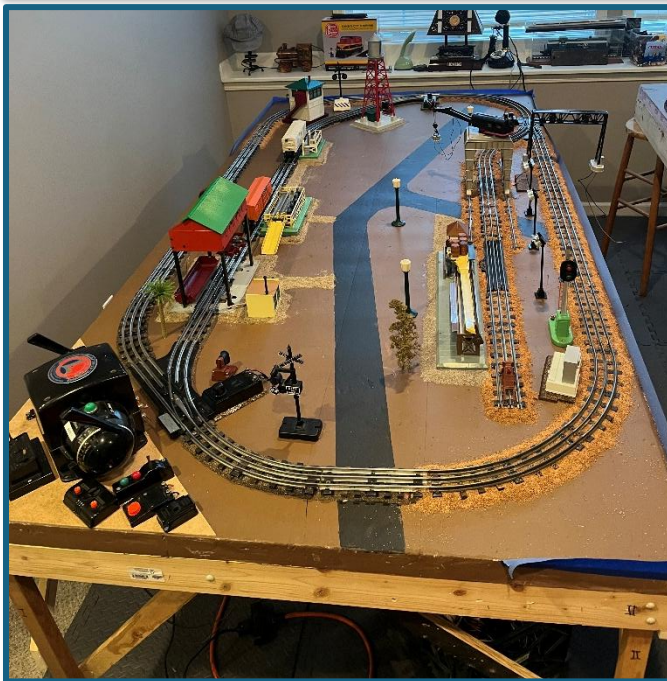
Notice on the picture of the table on the left, that we the Styrofoam brown. I paint the surface brown so that should I miss a spot with the ground cover it will not show through pink!





Another problem with Styrofoam is that paint does not adhere to it as well as wood. On the picture to the left we taped the borders of the streets. All this worked well when painting the streets, We had problems when we removed the tape. There were spots that when we pulled up the tape some of the brown came up with it! Not so bad that we could not touch up the brown paint on the table top.

On the second picture on the left you can see that the road came out OK.



The second picture also shows that we are beginning to add some scenic details. The track on the right has been ballasted. I use desert blend Terrian Gravel. The Terrian Gravel can be found at most pet stores, and is really cheap. I like the color, but if you want to change it the stuff soaks up dye really easily. I use numerous different colors of HO ballast for the roads, but a great deal of roads and driveways are playground sand (cheap!). To make the playground sand fine enough for use on the layout I first sieve it through window screen wire.



One final problem with Styrofoam is attaching the controllers and transformer. I solved this problem by cutting a rectangular piece of hardboard and gluing it to the Styrofoam. Works pretty well. More to come as we progress.

Chapter Reports

TCA Heart of America Chapter

Mike Bartley 10-65582, HOA President

The Heart of America Chapter hosted two events during the second quarter of 2026. On April 19, our chapter hosted its annual Buy, Sell and Swap meet. The meet was held at the Overland Park, KS American Legion Hall. Approximately thirty vendors representing HO, S and O gauge trains and accessories attended the meet.



On June 6, HOA Chapter member Mike Lee and family hosted an open house layout tour. The open house was attended by approximately thirty-chapter members and guests. Mike's O gauge layout features an intricate track plan, many realistic track-side structures, beautiful landscaping and prototypical railroad signaling. In addition, Mike's three children displayed their O gauge "carpet" layout, and Mike's wife displayed her tabletop N scale layout. This was truly a family affair event, and it was greatly enjoyed by all who attended.



Lionel Base3: Modern Train Control

By Darin Grant 11-65910 and Brad Marples HE95-41819

The Lionel Base3 Command System with the Cab3 application for phone or tablet is the heart of a modern Lionel command-controlled layout. One of the biggest advantages of the Base3 is its compatibility. It works with Lionel LEGACY, TMCC, LionChief+, LionChief, FlyerChief, and Bluetooth-equipped locomotives through a single command base. Depending on the locomotive, communication takes place using Legacy radio, Bluetooth, or RF technology. If you have more than one of these already on your layout, the Base3 is great as a single point of control. With TMCC, I struggled to remember what ID each engine had when I wanted to run it. The Cab3 application can display your entire engine roster and engines are just selected by touching the engine on the screen of your device, without needing to know the ID of what you want to run. While the Legacy Cab2 controller can also display your roster, Lionel has run out of most repair parts for this system and obtaining a Legacy base and handheld on the secondary market is costly. The Base3/Cab3 can also control conventional locomotives using a Legacy Powermaster(s) just as the Base 1 and Base 2 could control these locomotives.

Lionel Base3 Command System Basics

Step 1: Connect the Base3

Begin by placing the Base3 near your layout and plugging the supplied power adapter into a standard electrical outlet. Next, connect a wire from the **COMMON** terminal on your transformer to the **U** terminal on the Base3. This connection allows the Base3 to send digital command signals through the outside rails of your track. If you are already using the TMCC or Legacy Command Base, just remove the wire from the TMCC/Legacy common post and hook it up instead to the Base3 common post. You can completely remove these components, although if you are using the Legacy Cab2 handheld with the Base3, you can keep the Legacy base powered to charge the handheld.

Your transformer should continue to power the track just as it always has. For command operation, most Lionel locomotives perform best when the transformer is set to a constant **18 volts AC**. Once power is applied, the indicator lights on the Base3 will illuminate, showing that the unit is operating.

The Base3 is much more than a locomotive controller. As your layout grows, you can add or incorporate existing Lionel Layout Control System (LCS) modules to operate switches, accessories, block power, and lighting. The Cab3 app lets you organize these devices into control panels and even create routes that perform several actions with a single tap. Check out the Lionel Control website listed below for more information on integrating the Base3/Cab3 with LCS.

Step 2: Connect Your Mobile Device

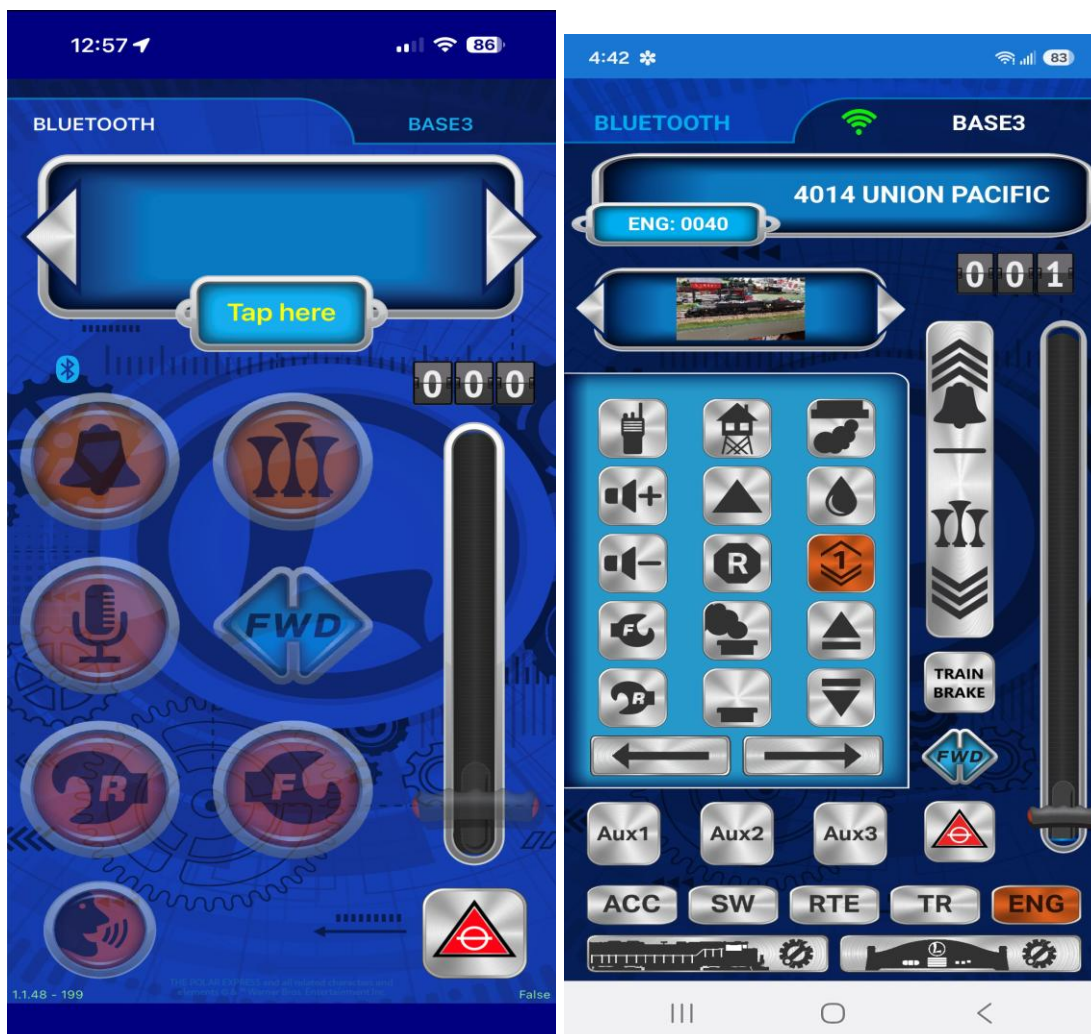
Download the free **Lionel Cab3** app from the Apple App Store or Google Play Store. During initial setup, connect your phone or tablet to the Base3's Wi-Fi network (Access Point), or configure the Base3 to join your home Wi-Fi network (Network). There is a switch on the Base3 for selecting between these options.

Many operators choose the Access Point option because it is the easiest to set up and use. Also, anyone who has downloaded the Cab3 app can join in and help you run trains by connecting directly to your Base3!

After the app finds the Base3, it will guide you through the remaining setup process.

Step 3: Add Your Locomotives

With track power turned on, place your compatible Lionel locomotive on the rails one at a time. Open the Cab3 app and select **Add Locomotive**. Newer Lionel engines will be discovered automatically, while older TMCC or LEGACY locomotives may require you to enter their engine ID number. Once added, the locomotive appears on your roster and is ready to operate. Each locomotive has to be entered so that it will be stored in the Base3 memory. The Base3 has “reserved” the first 29 ID numbers for LionChief and RF locomotives, so if you are using these ID numbers already in TMCC Cab1 or Legacy Cab2, you may want to assign those a higher ID number. Locomotives can also easily be added using orange Legacy control modules if your locomotives have these. There is also an option for transferring your entire roster (from a Legacy Base2) using a memory module and a separate system utility program from Lionel. This option still needs some development work from Lionel and is not as easy as it should be to accomplish. You may find it easier to transfer them manually and also to avoid transferring locomotives into the “reserved” ID numbers from 2-29.



Step 4: Running Your Train

Operating a train with the Cab3 app is simple. Select the locomotive from your roster, then use the on-screen throttle to increase or decrease speed. Large, easy-to-read buttons provide quick access to the whistle, bell, couplers, smoke, lighting, and crew dialogue.

The app also lets you adjust momentum, change direction, create lash-ups with multiple locomotives, and save favorite engines for future operating sessions. The advantage of an app is that features and buttons can be added through updates over time. The application should update automatically on your phone or tablet when updates are available.

Helpful Hints

If you want to use a remote instead of a phone or tablet, the Lionel Cab1-L remote and the Lionel Legacy Cab2 remote can be paired with and used with the Base3.

Detailed instructions for the Base3 can be found on <https://control.lionel.com/>

There are also some good YouTube videos that are helpful –

https://www.youtube.com/watch?v=zB-MXWXHqFc&list=PLx2i9JTR1u5XnnONZmeJBeYuJ_3QtNTsC&index=11

https://www.youtube.com/watch?v=btCW0PNDx3Q&list=PLx2i9JTR1u5XnnONZmeJBeYuJ_3QtNTsC&index=11

https://www.youtube.com/watch?v=nBF4rbsUjT0&list=PLx2i9JTR1u5XnnONZmeJBeYuJ_3QtNTsC&index=9

https://www.youtube.com/watch?v=l0UEgBWN0dU&list=PLx2i9JTR1u5XnnONZmeJBeYuJ_3QtNTsC&index=8

Train Related Activities

July 20-25th, 2026: Lionel Collectors Club America (LCCA) Annual Convention
Denver, CO

August 1st, 2026: Model Train & Diecast Tailgate Swap Meet
Saturday 9:00am—1:00pm
The National Museum of Transportation, Parking Lot #2
2967 Barrett Station Road, St. Louis, MO 63122

August 8th, 2026: Golden Valley Train Show
Saturday 9:00am – 4:00pm
Benson Convention Center
1004 E. Sedalia Avenue, Clinton, MO

August 15th, 2026: Central Missouri Chapter TCA Open House
Saturday 10:00am – 2:00pm
2002 Grindstone Parkway, Columbia, MO

August 29th, 2026: Boeing Employees Model Railroad Club Swap Meet
Saturday 10:00am—3:00pm
Greensfelder Recreation Complex at Queeny Park
550 Wiedman Rd. St Louis, MO 63011

August 29th, 2026: Turkey Creek Train Show & Swap Meet
Saturday 8:30am – 3:00pm
Shawnee Civic Center
13817 Johnson Drive, Shawnee, KS 66216
<https://tc-nmra.org/>

August 30th, 2026: Mid-America Train & Toy Show
Sunday 9:00am – 2:00pm
KCI Expo Center
11730 NW Ambassador Drive, Kansas City, MO

September 11-12th, 2026: Ozarks Model Railroad Association Annual Train Show
Friday 4:00pm – 8:00pm, Saturday 9:00am – 3:00pm
E-Plex East Hall
3001 North Grant Avenue, Springfield, MO 65803
<http://www.omraspringfield.org/>

September 26th, 2026: Pacific Eagles Train Show
Saturday 10:00am – 3:00pm
707 West Congress Street, Pacific, MO 63069

October 3rd, 2026: 35th Annual Greater St. Louis Metro Area Train Show
Saturday 10:00am – 4:00pm
Kirkwood Community Center
111 S. Geyer Road, Kirkwood, MO 63122

October 3-4th, 2026: 5th Annual Topeka Model Railroaders Train Show
Saturday 9:00am – 5:00pm, Sunday 9:00am – 3:00pm
5720 SW 21st St, Topeka, KS 66604

October 17th, 2026: Iron Spike Railroad Swap Meet
Saturday 10:00am – 3:00pm
Washington City Auditorium
211 High Street, Washington MO 63090
Admission \$8, includes same day admittance to Iron Spike Museum

October 20-24th, 2026: York Train Meet Eastern Division TCA
York State Fairgrounds, 334 Carlisle Ave, York, PA 17404
<https://www.easterntca.com/>

November 7, 2026: Model Train Meet
NMRA Gateway Division Mid-Continent Region
Saturday 9:00am – 3:00pm
VFW Post 5691
1234 Vandalia, Collinsville, Illinois 62234
<https://trainshows.net/club/11/nmra-mid-continent-region>

November 14th, 2026: 28th Annual Swap Meet - Central Missouri Chapter of the TCA
Open to TCA, sponsor members at 9:00am, public from 10:00am - 3:00pm
The Cosmopolitan Luncheon Club
1715 Burlington, Columbia, MO 65202

November 14th, 2025: Dupo Train Show
American Legion Hall
Saturday 9:30am – 2:00pm
200 South 5th, Dupo, IL 62239

November 14-15th, 2026: OKC Train Show 2026
Saturday 9:00pm – 5:00pm, Sunday 10:00am – 4:00pm
Bennet Event Center
3101 Gordon Cooper Blvd, Oklahoma City, OK 73107

November 22nd, 2026: Mid-America Train & Toy Show
Sunday 9:00am – 2:00pm
KCI Expo Center
11730 NW Ambassador Drive, Kansas City, MO

December 5th, 2026: Gateway Beer and Brat Train Show
Saturday 9:00am – 3:00pm
Orlando's, 4300 Hoffmeister Ave, St. Louis, MO 63125
Contact Jim Bryan 314-550-1529
ozarkdivision2024@gmail.com

December 5th, 2026: Broken Arrow Holiday Train Show
Saturday 9:00am – 4:00pm
Rhema Ninowski Recreation Center
1367 East 71st South / West Kenosha, Broken Arrow, OK 74012
<https://www.ttos-soonerdiv.org/train-shows.html>

December 12th, 2026: TCA HOA Chapter Annual Meeting
Saturday, 2:00pm to 5:00pm
Missouri Model Railroad Museum 318 W Pacific Independence, MO 64050

OZARK DIVISION TCA OFFICERS - JULY 1, 2026, to JUNE 30, 2028

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jbryan 7/1/2026

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olathedonm@aol.com

Guidelines for submitting an article for the Ozark Newsletter.

Write about something that interests you. As one of my professors taught me, “begin with end in mind”. So, take the time to plan the article. Another tip came from my High School Speech teacher when explaining the structure of a good speech was to “Tell them what you are going to tell them, tell them, and tell them what you told them”. Advice appropriate for an article as well as a speech.

I typically try for an article that is 4 – 5 pages long. That is an 8^{1/2} x 11-inch standard copy paper at 12 pitch lettering, including pictures.

Email your article to me at olathedonm@aol.com. I use Microsoft office and Word can open almost any type of file containing your article. I use “Arial” as a font style and start out with 11-point pitch letter size. However, fonts and any pitch size are easily changed, so I can use almost anything.

Pictures add much to the article. So, include as many as you can that support your article. I generally use .jpg files, but I can handle almost anything including Apple’s HEIC.

Videos are a plus. If you can send me an MP4 video I will upload it to my YouTube channel, and I will link it to the article. If you use your cell phone to shoot the video, please, please hold your cell phone horizontally not vertically. Video files are quite large and unless they are short cannot be emailed. If you have your own website and can upload the video to that site, do so and send me a link to the video. You can also send me the video via Dropbox software. If you have a cloud drive service, you can send links to let me download the video. Finally, you could always mail me a USB drive! (A note on video file types. I prefer MP4, but I can convert almost anything you send me.)

Newsletter Mission

Provide an emailed quarterly Newsletter to the Ozark Division membership. The Newsletter should include articles of interest to a wide variety of membership toy train interests. Also, it should include updates from each of the chapters, listings of train-related activities and contact information for the Ozark Board of Directors.



Save the Date

Gateway Beer and Brat Train Show

Saturday

December 5, 2026

9:00am – 3:00pm

“Fun for all Gauges”

Orlando's
4300 Hoffmeister Ave
St. Louis, MO 63125

Admission \$5.00 (Children 12 and under Free)

The First 50 Children get a Free HO Train Car
when accompanied by an Adult!

Refreshments, Operating Displays, All Gauges Represented

Sponsored by Train Town

9832 Manchester Rd. St. Louis, MO 63119

Table Rental

Name _____

Phone# _____

e-mail _____

Number of Tables Requested @ \$25 per table _____

Helper Name (one allowed) _____

Paying by Zelle or Check _____



Pay by Zelle

All vendor space is available on a first come basis. All tables are \$25. Maximum one helper per vendor. Vendor setup opens at 7:00am on the show morning. No-Show results in forfeit of registration fee. Please complete the registration form and return with payment. Make your check payable to: Ozark Division. Mail to: TCA Ozark Division, 329 Summit Heights Ct., Fenton, MO 63026

Questions? Contact Jim Bryan (314) 550-1529 or ozarkdivision2024@gmail.com