Ken Hanawalt: Print your own Turnout Lock, pp. 9-10





Editor's Model of the Month

Bill DeFoe brought his beautifully detailed private car from his Cinder Valley Railroad, with detailed interior and working marker lights. He explained how he started with a heavyweight observation car and super-detailed it with figures, carpeting, fixtures, and working marker lights. See more photos and description inside in the Bring'n'Brag report on page 5.

Meeting Schedule

September 17, 2023 - Division 2 Meeting, 2:30pm Schiappa Library 4141 Mall Drive Steubenville, OH 43952

October 15, 2023 - Division 2 Meeting, 2:30pm Rochester Area Museum & Heritage Society 350 Adams Street Rochester, PA 15074

November 19, 2023 - Division 2 Meeting, 2:30pm New Eagle VFD Social Hall 156 Chess Street New Eagle, PA 15067

Get the Color Version of the Keystone Flyer — as well as Online Extras — as soon as it comes out and other Division 2 news flashes and announcements via email. Contact Susan Werner:

swerner48@yahoo.com

Bring'n'Brag

Jan	Anything goes
Feb	Motive Power: Diesel, Electric
	& Traction
Mar	Motive Power: Steam
Apr	Freight Cars
May	*** MCR Regional Convention ***
Jun	Non-Revenue (incl. cabooses)
Aug	Passenger Cars
Sep	Vehicles
Oct	Structures
Nov	Prototype Photos

Submission Deadline for next *Flyer*: September 24, 2023

Visit us online at keystonedivision.org



From the Super's Desk

For the first time in 2 years (!), we held the annual Keystone Division Picnic. The weather smiled down on us, and it was a beautiful day full of sunshine and pleasant

The event was the result of many people that helped with the planning and execution. Arrangements were made with the park, food was purchased or brought, cooking for all was performed and it was all cleaned up when we were done.

Thank you to all that supported the event. I'd like to give a special shoutout to George for all the planning and shopping that was done! JOB WELL

September is traditionally the back-to-school month (although it seems like many districts are starting in late August now) and it often marks a return to routine with the anticipation of the changes that come with the new

At the August membership meeting, our membership chair Tom Gaus announced his retirement from that role after more than 16 years. Tom has been a real asset in that role, and I want to thank him for his service. It has been valuable to the division and we are all grateful.

Tom will continue to handle our website, so he's not fully "retired" from Division responsibilities.

I'm very happy to report that Ken Hanawalt volunteered to succeed Tom as our next Membership chair. Ken has been a division member for a very long time and was Superintendent back in the 1990s. Ken has mentored many young people and has shared many things with members. Thank you, Ken, for stepping up! I'm excited about what you will bring to the table.

With cooler weather approaching, we modelers are often planning new projects or dusting off old ones. It would be great if you shared your plans with other members. Perhaps, you could even share it as an article for the Flver!

Maybe a whole article is more than you want to do, so how about a simple "Here's what I'm working on" note with maybe a picture? I'm sure we can make room for those in any issue as well as mention them at our membership meetings.

There are a few reasons why you might want to share more.

- First, when you publicly say what you are doing, you are more likely to follow-up through with the actions needed.
- Second, someone might let you know that they have done it and would be glad to help you if you have any questions.
- Third, you may inspire someone!

Look at the positive things that can come out of all three! That's a win for everyone in the division, so come on!

By the way – Don't forget about our New Member Recruitment Incentive!

... Dennis Coglianese

Division Elected Officers

Superintendent

Dennis Coglianese (412) 418-9150 DJCoglianese@comcast.net

Asst. Superintendent

George Pandelios (717) 503-3192 gpandelios@verizon.net

Chief Clerk

Mike DeSensi (412) 613-4383 chiefclerk.div2@gmail.com

Division Appointed Officers

Company Store Treasurer

Susan Werner Jeff Gregg (724) 348-5855 (724) 379-8584 jwg625@comcast.net swerner48@yahoo.com

Webmaster & Membership

Keystone Flyer Editor Tom Gaus Patrick Altdorfer (412) 731-8846 (412) 559-3079 patrick.altdorfer@gmail.com

webmaster@keystonedivision.org

Achievement Program

Dennis Vaccaro, Chair Susan Werner, Asst. Chair (724) 929-2190 (724) 379-8584 vaccaro dennis@yahoo.com swerner48@yahoo.com

Bring'n'Brag

Tracy Boyd Richard Terek (410) 919-7115 rjtgbg1@comcast.net

Convention Committee

Keith DeVault Grier Kuehn (304) 599-5261 gekuehn@comcast.net devaultkj@comcast.net Neal Schorr naskss@yahoo.com

Modular Layouts

FreeMo (HO scale) Patrick Altdorfer patrick.altdorfer@gmail.com

T-Trak (N scale) Richie Jodon | Jim Braum richjodon30@gmail.com jimmy braum@yahoo.com

Jamboree Committee

The Keystone Flyer is published ten times a year by Division Two of the National Model Railroad Association, Mid-Central Region. Subscription to the Flver is included with your NMRA membership and sent via e-mail directly to each member who chooses to receive the newsletter in this format. Alternatively, you may also read the Flyer online, or download a copy onto your computer or mobile device by navigating to the link on the Division Two website [www.keystonedivision.org]. Members without internet access or an e-mail address may request a printed copy from the Division; please send your name, address, and phone number to: Patrick Altdorfer, Editor, 6333 Morrowfield Avenue, Pittsburgh, PA 15217. Pike ads are available to publicize your home or club model rail empires for a \$15.00 yearly fee. You may supply artwork or have it produced by the editor for a nominal fee. Pike ads are also posted in full color on the Division website.

Minutes

August 20, 2023 Business Meeting

Superintendent Dennis Coglianese called the meeting to order at 2:10pm. He thanked Mother Nature for a perfect day for our picnic. He also mentioned that this is our first 'in-person' picnic in 4 years. [We have since confirmed that it was 2 years.—ed.]

Pass the Hat: Jeff Gregg passed the hat.

New members or guests – None.

Motion to accept the minutes as published by Rob Twigger, seconded by Keith DeVault; the motion passed unanimously.

Committee Reports

Keystone Flyer – Patrick Altdorfer. The deadline for submissions for the next issue of the Keystone Flyer is August; the Flyer is always looking for new contributions.

Financial – Treasurer Jeff Gregg. The division is solvent.

Programs – Assistant Superintendent George Pandelios. The upcoming meeting schedule is: September 17, Schiappa Library, Steubenville, OH. Program: guest speaker Denny Varian of the Age of Steam Roundhouse in OH; October 15, Rochester Area Historical Society, Rochester, PA. Program: Introduction to Vallejo Acrylic Paint & Accessories (by Mike DeSensi); November 19, New Eagle VFD Hall, New Eagle, PA. Division 2 member-to-member white elephant tables. George also thanked all those who helped with the picnic.

Company Store – Susan Werner. There are a few things available in the store, please stop by and browse. A variety of liquid delivery trucks in various schemes are available.

Membership – Tom Gaus. Membership stands at 197. Tom also announced his retirement from the 'temporary' (since 2007!) chair of the Membership Committee. Thanks for your service, Tom!

Website – Tom Gaus. The website is up to date.

Free-Mo – Patrick Altdorfer invited Dave Martinelli to report that Division 2 members joined up with the South Hills Model RR Club and their Free-Mo modular display at the Greenberg Train Show, held in Monroeville, PA, August 5 & 6.

Bring & Brag – Tracy Boyd / Rick Terek. Rick announced the winning entries in the category Passenger Equipment: Third Place: Rick Montgomery, 85' Hi-Level Budd car. Second Place: Patrick Altdorfer, German passenger train. First Place: Bill De-Foe, Private Passenger Car. Bill described his efforts as follows: the car started as a simple heavyweight observation car; the unit has working marker lights made from the smallest LED lights he could find; the battery power is mounted inside the roof, and uses a micro-switch mounted in the clerestory roof; member Dennis Vaccaro provided a collection of caboose interior parts modified to fit; the interior carpeting is felt; and the model was finished with various acrylic paints. Great job, everyone!

Mike DeSensi

Superintendent Coglianese asked members to get off their butt and bring their entries to the Bring'n'Brag.

Video Library – Bud Brock. No progress.

Achievement Program – Dennis Vaccaro. Dennis announced individual Volunteer AP Certificates to Richie and Laura Jodon. Congratulations to Richie and Laura!

T-Trak — Richie Jodon / Jimmy Braum. Jimmy reported that the T-Trak modules were displayed at the Cedar Creek community event earlier in the month and consisted of 30 modules; the group is expecting to attend the Greenberg Train Shows in November 2023 and January 2024.

Jamboree 2024 – Grier Kuehn reported that the confirmed date for the next Jamboree is April 13, 2024. It will be held at the Community College of Allegheny County's Boyce Campus located in Monroeville, PA.

Old Business - None.

New Business - None.

For the Good of the Division

Superintendent Coglianese: Out of courtesy to the presenters, please let's try to have a shorter time between the conclusion of the Business Meeting and the start of the program.

There was a brief discussion about changing the date of the August meeting so as not to conflict with the National Convention. Next year the Convention is August 4-11, 2024, so no adjustment for the meeting date will be needed.

Asst. Superintendent Pandelios asked that we continue our trend of being exceptional guests of Leetsdale Boro by cleaning up after the conclusion of the picnic.

What's On Your Workbench?

Dave Martinelli is building a module with portions being made of plexiglass, so the construction and wiring details are visible to the viewer. The module will also showcase a variety of track brands.

Susan Werner is changing the lighting on her layout.

Ken Hanawalt is looking for a recommendation for an online course on electronics and board testing.

John Gallagher asked about the prototype orientation of the coaches on the PRR General (using the Walthers cars), seats forward facing or backwards facing. After a brief discussion it was determined that the seatbacks were probably interchangeable.

J Braum noted that as of July 2023, the East Broad Top was now rebuilding track south of Orbisonia.

Next Meeting: September 17, 2023. Schiappa Library, Steubenville, OH.

Motion to adjourn by Mike DeSensi, seconded by Susan Werner; meeting adjourned at 2:51pm.

Keystone Flyer



Susan Werner, CEO 292 Salem Church Rd. Belle Vernon, PA 15012 swerner48@yahoo.com

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OHIO RIVER NORTHERN RAILWAY CLUB

Bring'n'Brag

Tracy Boyd/Richard Terek



Bill DeFoe won 1st place for this private car for his Cinder Valley Railroad. He started with a heavy-weight observation car and super-detailed it from there. At left, you can just barely see the switch in the clerestory window that operates the working marker lights; below is the view of his train you get as you watch the railroad's executives pass you by in style.

Photos by Patrick Altdorfer except as noted.

August 2023

The Bring'n'Brag category for June was "Passenger Cars." There were three entries submitted for voting, and the ranking was as follows:

1st Place went to Bill DeFoe, who entered a private car from his own railroad that he kitbashed. He described his efforts as follows: The car started as a simple heavyweight observation car; the unit has working marker lights made from the smallest LED lights he could find; the battery power is mounted inside the roof, and it uses a micro-switch mounted in the clerestory roof; Dennis Vaccaro provided a collection of caboose interior parts modified to fit; the interior carpeting is felt; and he finished the model with various acrylic paints.

2nd Place went to Patrick Altdorfer, who brought three Liliput models of German passenger cars in historical liveries - one sleeping car from "Mitropa" (the "Central European Sleeping and Dining Car Company" that operated passenger service in Europe for the German state railways from the 1920s through 1994),

and a sleeping car and dining car of the "DSG" (the west German sister company of Mitropa) - pulled by DRG 03.1001, a 1930s era streamlined steam locomotive (Pacific type) from Fleischmann.

3rd Place went to Rick Montgomery, who brought an 85' Hi-Level Budd passenger car from Walthers Proto, in which he installed a Walthers light kit, Preiser seated figures, and did some light weathering of the wheels and trucks.

... continued on page 6





Rick Montgomery sent this photo of his Budd 85' Hi-Level passenger car, upgraded with figures, light kit, and light weathering of the wheels and trucks.



Bring'n'Brag

... continued from page 5

Name	pts	Name	pts
Rick Montgomery	13	Bob DiBenedetto	2
Jim Braum	3	Terry Stuart	2
Joel Everly	3	Richard Turton	2
Bill DeFoe	3	Susan Werner	2
Patrick Altdorfer	2	Rick Bennett	1
Mike DeSensi	2	Ray Helster	1

The Bring'n'Brag contest category for September is "Vehicles." Remember: All entries must be presented to the presiding Bring'n'Brag chair no later than 2:00pm in order to be considered.

Tracy Boyd/Richard Terek

<u>Clarification on the Standings</u>: The standings listed monthly are the accumulation of points earned by entrants in each contest throughout the year. The points are calculated as follows:

The entry that wins 1st Place (based on popular vote in the monthly contest) is awarded 3 points for that month; the 2nd Place entry earns 2 points, and the 3rd place entry earns one point. In the case of ties, each entry is awarded the respective points toward the standings. The standings are updated each month and published in the Flyer.

Points are accumulated throughout the year and the modeler at the top of the standings after the tenth (November) contest receives the "Modeler of the Year" award at the annual Jamboree (or Regional Convention) held the following spring.

- Rick Terek



The meeting gets underway beneath the brilliant sun and blue sky in Henle Park on August 20th, a far cry from the weather that forced us to cancel last year's picnic.

AP Chair Dennis Vaccaro announces that Richie and Laura Jodon have earned their Volunteer certificates.

THANK YOU

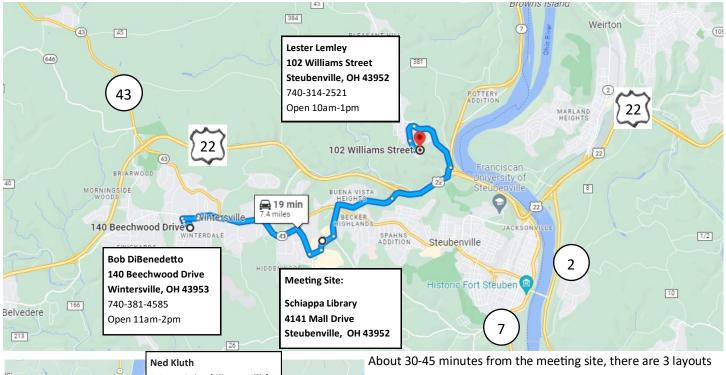
I would like to thank all the volunteers who stepped up to assist at the Division picnic. In particular, I would like to recognize those who helped with set up and tear down, assisted with cooking and serving, brought home-made side dishes and desserts, supplied coolers and ice, and who provided the sound system. Because of their help, the event went off very efficiently and successfully.

- George Pandelios,, Assistant Superintendent

MEETING TIMETABLE

September 17: Schiappa Library, Steubenville, OH

Our September meeting returns to Schiappa Library (**4141 Mall Drive, Steubenville, OH 43952**). The program will be presented by Denny Varian of the Age of Steam Roundhouse in Sugarcreek, Ohio. Several local layouts will open their doors to us before or after the meeting. Nearest the meeting site (ca. 10 mins. drive) are **Bob DiBenedetto** and **Lester Lemley** (both HO scale).



Ned Kluth
1 Aster Drive (Clinton Hills)
Triadelphia, WV 26059
304-431-4771
Open 10am-1:30pm

Martins Ferry, OH 43935
740-391-5752
Open 10am-2pm

Alden McBee
4 Kenwood Place
Wheeling, WV 26003
304-281-1955
Open 10am-2pm

After the meeting (4-6pm), **Arley Mitchell** will open his layout in Wellsburg, WV (map at right). Cross over the Ohio and take Rt. 2 south and then WV 27 east to Wellsburg to see it before he makes changes on it this fall. These maps are for general orientation; as always, **please use a real map (or GPS) to plan your trip**, and bear in mind the drive time between the home layouts and the meeting site.

<u>Coming Up</u>: see the October Keystone Flyer for details on our next 2 meetings, on <u>October 15</u> at the <u>Rochester Area Heritage Society</u> (program: Mike DeSensi on acrylic paints) and <u>November 19</u> at the <u>New Eagle VFD Social Hall</u> (with members White Elephant sale).

About 30-45 minutes from the meeting site, there are 3 layouts open before the meeting (left map): Larry Willming opens his O and N scale layouts in Martin's Ferry from 10am to 2pm. Across the river, Alden McBee (HO scale) will be open in Wheeling, and in the Clinton Hills subdivision of Triadelphia (off of WV Rt. 88, ca. 2 miles north of Oglebay Park), Ned Kluth will open his garden railroad from 10am to 1:30pm — <u>assuming no rain</u>. Wrote Ned: "It's the inch and a half scale, 7-1/2 inch gauge train that my dad built to scale from scratch... [it] is made of wood and sheet aluminum and can't get wet." Call Ned if you have questions.



The Keystone Flyer

Division Two, NMRA, MCR P.O. Box 223 Gastonville, PA 15336



NEXT MEETING:

Schiappa Library, Steubenville, OH, September 17



Mon Valley Railroad Historical Society

128 Pleasant Street Morgantown, WV 26505

Meeting Thursdays at 7:00 PM

www.MVRRC.org

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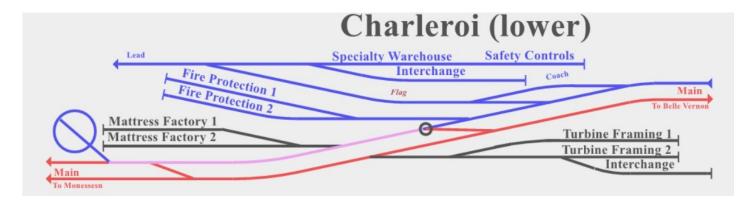


Worknights: Tuesdays 7:30 www.bcmrr.railfan.net

3d Print a Turnout Lock

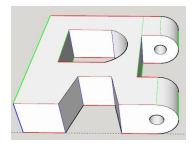
by Ken Hanawalt, Turtle Creek Railroad

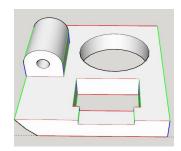
On the Turtle Creek Railroad layout, at the town of Charleroi, there is a small yard for the Ferry Train branch and also a few mainline industries. In the diagram below, the branch tracks and industries are blue, the mainline tracks are red. Tracks shared by the branch and main are violet, and mainline industries are black. Both main and branch are protected by signals where they go into a tunnel on the right. The turnout marked with a circle in the diagram separates the main and branch areas, and is usually set in "reverse" to guide any mainline train onto the front (mainline) track and to restrain the branch train to the back. The Ferry branch is a turn, coming in from the right and returning to the right.

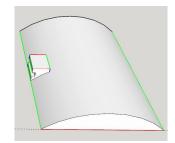


However, after the ferry train is finished working the town, it needs to use the shared part of the inner main track to reach the turntable before returning through the tunnel. The turnout (marked with a circle) connecting the two areas has a lock on it that prevents it from being turned to the "normal" position unless the lock is opened, and when the lock is opened, the signal at the tunnel for the inner (branch) track turns red to remind mainline train engineers not to exit the town on the branch track.

The lock is a small 3D printed object with a hinged lid that fits over the throwbar of a Peco turnout and prevents the turnout from being changed when the lid is shut. Other brands of turnouts would have to be modified or would require a different cutout. The base of the lock (left part of the diagram shown below) contains a cut out for a Hall-Effect transistor, a cutout for the end of the turnout throwbar, and part of the hinge. The top of the lock (middle part below) contains the other part of the hinge, a cutout for a magnet, and a cutout for the throwbar. The cover for the lock (right part) is glued to the top of the lock when assembled and serves as a handle. The cutout in the bottom part prevents the throwbar from moving toward the lock and the cutout in the top part prevents the throwbar from moving away from the lock unless the lid is open. When the lock is assembled, a straight sewing pin is used to hold the hinge parts together and serve as an axle.







3d Print a Turnout Lock

The left photo shows the lock installed over the turnout throwbar with the lid shut so the turnout cannot be changed. The turnout is in "reverse" position, so a train on the inner (shared) mainline will be directed to the outside main and right hand-tunnel entrance. The right photo shows the lock with the lid open (painted red inside as a warning to the operator). With the lid open, the turnout position can be changed and the

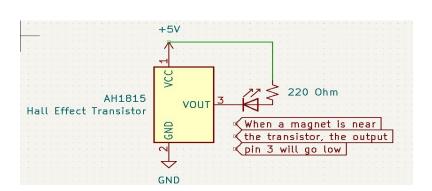




track signal at the tunnel entrance will be red.

The Hall-Effect Sensor transistor (HES) illustrated on the left below turns on when a magnet is present. The illustration shows the front of the HES. The back of the HES is flat. The left pin (1) is +5, the middle pin (2) is the ground, and the right pin (3) is the output. When a magnet is present (very near the back of the HES) the transistor turns ON (pin 3 goes low so current can flow into it). The right part of the illustration below shows a test circuit for the HES. NOTE pin 3 is the right pin, not the middle pin. So when the lid of the lock is closed, the magnet in the lid is near the transistor and current can flow to pin 3 from +5 through the 220ohm resistor and the LED, making the LED light. If you build a lock, you will want to connect this pin to your signal circuit where you can control what happens when the lid is opened.





The transistor will fit into the opening in the base of the lock. The pins are bent toward the front and at a right angle to the transistor so the back of the transistor is even with the top of the opening and glued in place. The magnet is glued into the circular opening in the lid. You can see these parts installed in the photo of the lock above. The transistor can be ordered from Amazon or from Electronics123.com using part number SO70375, SEN-14709s, AH1815 (a non-latching, low sensitivity, omnipolar HES) for about \$1.50. The magnet is from APEX (1/4" x 1/16" Neodymium) about \$0.25 each in quantity. You can download the lock parts from a Stereo Lithographic (STL) file for a 3D printer from the Division-2 Web site at **www.KeystoneDivision.org/reports/turnout_lock/TurnoutLock3.stl**



Round the Curve to Altoona

October 19-22, 2023

http://mer2023.org/index.html

The Mid-Eastern Region's annual conventions rotate throughout the MER so that each geographic area will have a nearby convention on a regular basis. The host areas are North Carolina or Southern Virginia, Washington DC, Maryland, Pennsylvania, and Eastern New Jersey. Pennsylvania is the selected area for our 2023 convention with the Susquehanna Division 11 as host.

The previous two conventions held in Pennsylvania were in King of Prussia and in Harrisburg. We wanted to find a host city that was farther to the west, and it was not difficult to identify Altoona as an ideal place to hold this convention. A very successful MER convention was held there in 2000. In 2000, the host hotel was the Altoona Sheridan which is now called the Altoona Grand Hotel under its new management. It was again selected as the host hotel for our 2023 convention.

Jerry Lauchle, MMR was appointed chairman of the Local Convention Committee (LCC) in February 2022. Jerry plans to attend the MCR Convention we are hosting in Cranberry this May, on Friday and Saturday, to present information about their plans for Altoona 2023. Watch the Keystone Flyer throughout this year for more information about this convention, and other exciting upcoming prototype and model railroad events.



Needed: Volunteers for National Narrow Gauge Convention September 11 – 14, 2024 Greentree, PA

Contact: Susan Werner Swerner48@yahoo.com

New Member Recruitment Program

During the remainder of the year (July to December 2023), we would like to encourage current members to seek out potential new members at train shows, hobby shops, clubs or anywhere such candidates might be found. Division 2 will reward members for any new members they recruit.

This is how the reward program will work:

- The current member tells them about the NMRA's RailPass program and that the division will pay for that RailPass if the following takes place: saves his/her receipt.
- 2) The new member will complete an application on the NMRA website and purchase a RailPass membership.
- 3) The new member comes to a Division 2 meeting in one of the next 3 months that meetings are held.
- 4) The new member is issued a check for the RailPass membership (\$19.99) when their membership is confirmed on the Divisions Membership list provided by the Mid-Central Region on the first of each month and they fulfilled the requirement to attend a Division 2 meeting. Note that if the new member enrolls in any other membership level, we will award the cost of a RailPass membership.
- 5) The recruiting member is issued a check for \$10.00 when the new member fulfills the requirement to attend a Division 2 meeting.