

# February 2024 Volume 17 Number 2

# **Sunrise Division Officers**

| Superintendent       | William Boorman |
|----------------------|-----------------|
| Asst. Superintendent | Dennis Hagen    |
| Secretary            | Bob Hochstetter |
| Treasurer            | Dave Clifford   |
| Program Chair        | Gary Myers      |
| Division AP Chair    | Gerry Meltzer   |
| Youth Coordinator    | Position open   |
| Education Chair      | Stewart Jones   |
| Modular Layout Chair | Larry Stephens  |
| Herald Editor        | Bob Hochstetter |

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# **Layout Photos of the Month**

This month's three photographs were taken on Bill Botkin's home layout.

I need photographs for the Herald. If you have photographs of your layout that you would like to have included here, please send them to me. (Ed.)







## **February Meeting Notes**

The regular monthly meeting of the Sunrise Division of the National Model Railroad Association was held February 1, 2024, at Holy Love Lutheran Church. Superintendent William Boorman conducted the meeting. The meeting was called to order at 7:03 p.m. Twenty-seven members attended in person, and two joined via Zoom.

William began the meeting by asking the members for a self-introduction, brief mention of modeling scale and recent accomplishments.

Announcements, Tool Time, the Clinic and more followed the self-introductions. All of these are included in this issue of the Herald. William adjourned the meeting at 9:00 p.m.

# **Next Meeting**

The next meeting will be Thursday, March 7, 2024, in person at Holy Love Lutheran Church, 4210 S Chambers Road, Aurora, Colorado. The meeting will start at 7:00 p.m. The meeting will also be streamed on Zoom with sign-in between 6:30 and 7:00.

### Videos of the Month

The layout of the month photos inspired me to select these two videos of the Lackawanna in 1958 (Ed.):

The Lackawanna Railroad & Phoebe Snow 1958

https://www.youtube.com/watch?v=qmo HuEVDCYE

Lackawanna Freight 1958

https://www.youtube.com/watch?v=X4bxcP 5Tm4w

## **Upcoming Tool Time**

March—Slanser Switch Stands—Bill Johnson

# **Upcoming Clinic**

**March**—How I Built the Salida Sandhouse—Gary Myers

**Upcoming Show 'n' Tell** 

March—Tunnel

### Reminder

To reduce problems, especially for those who join the meeting on Zoom, we continue to ask that Show 'n' Tell photos, Clinic presentations, and Tool Time photos be taken before the meeting and sent to:

Gary Myers (garymyers06@comcast.net) for presentation at the meeting, and to the editor (rlhoch422@gmail.com) for inclusion in the Sunrise Herald. (Ed.)

# **Module Report**

Larry Stephens needs to cut two rectangular holes in 28 pieces of styrene for the modules. If you have a laser cutter that will cut 0.1-inch-thick styrene and would like to help him out, please notify Larry or one of the officers of the Division.

#### **Announcements**

The Foothills Society of Model Railroaders swap meets
Green Mountain Presbyterian Church
12900 W. Alameda Parkway
Lakewood, CO

9:00 a.m. -11:30 a.m. on the third Saturday of odd numbered months (303)989-0087 or (303)985-1491

Rocky Mountain Train Show - Spring 2024 April 6th & 7th

Sat 8:00 AM - 9:00 AM - Pre-Registerd TCA/NMRA Members

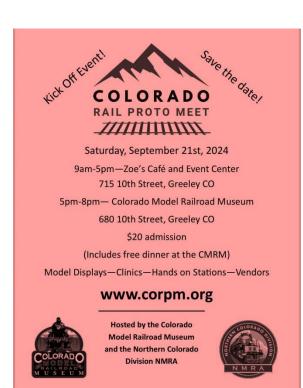
> Sat 9:00 AM - 5:00 PM - Public Sun 9:00 AM - 4:00 PM - Public

National Western Complex 4655 Humboldt St. Denver, CO 80216

### **Exhibit Areas**

Expo Hall, Hall Of Education - East, Hall Of Education - West, Stadium Hall

Clinicians are needed for the Rocky Mountain Train Show. If you have a clinic that you would like to present, please contact William Boorman.



## The Sunrise Division Auction is Returning

When: May 2, 2024

Where: At the monthly Division meeting

Select that one quality item that you know you will never use but are willing to make available to a fellow model railroader. Sell it at the auction and line your pocket with funds to purchase an item that you cannot do without.

### **Awards**



Gary Myers presented Bill Johnson (right) a certificate marking his 50 years as a member of the NMRA. Bill said that he joined the NMRA when he was three years old.



Bill Botkin (left) was presented an Achievement certificate for Master Builder -Structures from Gary Myers.



Bill Botkin also received his Achievement certificate for Master Builder-Scenery.

## **Tool Time**

Dennis Hagen presented this month's Tool Time. He showed how to make inexpensive throttle cradles out of electrical outlet boxes. His PowerPoint presentation follows.



























### Show 'n' Tell

This month's Show 'n' Tell subject was any non-railroad structure.







These pictures first show this house as it was on the modular layout. I was not entirely happy with how it looked, and the orientation on the layout at the Thanksgiving show, so I removed it during tear down to take home and make it better. So far, I have added all new scale framing for the addition, new paint colors and a scratch-built chimney and am working on an interior as well. Adam Crews







The second building was donated to the group and was a Murray's Drugs kit which I made into a F.W. Woolworths. It got a much-needed facelift and will be the new building for the corner of Main Street on the Division's module number 3. Interior details are also being completed including a Luncheonette in the corner. Adam Crews



This is a commercial building I picked up from my friend Don Meeker. I liked the signage, and it was assembled very cleanly. I believe that putting structure kits together is the most rewarding return on your hobby dollar of any model railroad activity. However, after saying that, I must confess that I'm not very good at it. Therefore, I jump at the opportunity to pick up nice structures when they become available. Bill Johnson



This was a model from Mountain Models that was displayed at Caboose Hobbies. After an accident I rebuilt it and with the help of a vendor that had a static grass applicator, we dressed it up. **Bill Johnson** 



This picture of the Argosy Booksellers kit is in the Walthers catalog.



Port Huron, Michigan needed a first-class hotel located near the Grand Trunk Western Railroad depot. Local investors responded by converting the Argosy Booksellers building into the first-class Grand Hotel. Rich Flammini



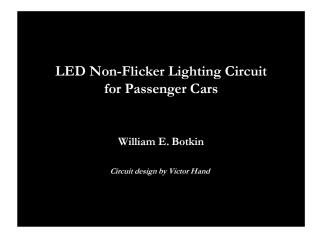
Ace Hardware is a large well-known chain. Now they have some competition. **Stu Jones** 



**HO Wild West Models Miners Supply.** This is a laser cut model with a simple construction. It has a removable roof. It was painted with acrylic paints and weathered with Bragdon powders. Gary Myers

### Clinic

Bill Botkin presented this month's clinic on fabricating non-flickering passenger car lighting circuits. His PowerPoint slides are reproduced here.



### Requirements

- Powered from DCC track power, not batteries.
- · Absolutely no flicker, even over sections of dirty track or gaps.
- · Ability to position lights (LED's) in different locations depending on the floor plan of the individual car.
- · Simulate both incandescent and fluorescent lighting for both heavyweight and lightweight cars.
- Able to adjust LED intensity to suit layout lighting
- Turn lights on/off without a mechanical switch or decoder.
- · "Economical" to build.

#### How it works

- Bridge rectifier converts DCC 14.25 VAC track power converted to 14.25 VDC.
- Two magnetic reed switches control double pole double throw (DPDT) latching relay.

  Reed switches are located under roof at each end of the car.

  Magnet activates one reed switch and latches relay turning on the circuit and other reed switch will reset relay when activated to untru the circuit off.
- DPDT Relay When latched charges super capacitors and turns LED's
  - On.

    When relay is reset, LED's are turned off and super capacitors are disconnected.

    Magnetic reed switches and relay can only be activated when track power is on.
- Super capacitors (3 5.5V .33F) are wired in series and can handle 16.5 volts.
- volts,

   Capacitors charge and deliver from 10 to 16 volts when track power is interrupted.

   An average circuit with nine LED's will stay lighted for several minutes with no track power once charged.

  Voltage regulator reduces voltage from capacitors to 3.3 volts to power LED's.
- Trim potentiometer allows adjustment of LED brightness.

   LED's should run at slightly less than full brightness to eliminate any slight flickering and to extend life.

  - Additional fixed resistors can be added to adjust brightness of individual LEDs in vestibules or aisles if desired

#### Components - Mouser Part Numbers

Twin Industries prototype board 10x10 in.
Enough for nine circuits
Vishay bridge rectifier 1A 100V 589-8000-1010-LF

625-DF01M-E3

 Meder Electronic magnetic reed switch
 Two per circuit
 TE Connectivity dual latching relay 876-KSK-1A66-1015

Elna Supercapacitors 5.5V 0.33F

- Three per circuit 555-DX-5R5H334U 511-LF33ABV

Three per circuit
ST voltage regulator 3.3V .05A
Bourns trimmer resistor 5K ohms 10%
Warm white "chip" LED 2800 -3200K

652-3362W-1-502LF TBD by testing

 Nine per circuit for 85' HW cars to simulate incandescent lighting
 Cool white "chip" LED 4000-5000K
 TBD by testing Nine per circuit for 85' LW cars to simulate fluorescent lighting

Approximate cost per circuit +/- \$25

