

#### October 2023 Volume 16 Number 10

#### **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 of the Month**

This month's three photographs are from Barry Allison's HO scale layout. They were taken by the editor during the Sunrise Division's layout tours on July 22, 2023.

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.)







#### From the Editor

I was unable to attend the October meeting of the Sunrise Division. Thank you, Dave Clifford, for taking notes for me.

The meeting did not follow the normal format. Due to a lack of time, Show 'n' Tell did not occur. Consequently, the next meeting's Show 'n' Tell will feature both *Anything Goes* and *Streetcars/ Trolleys*. I am looking forward to seeing many interesting items next month.

#### **October Meeting Notes**

The regular monthly meeting of the Sunrise Division of the National Model Railroad Association was held October 5, 2023, at Holy Love Lutheran Church. Superintendent William Boorman conducted the meeting. The meeting was called to order at 7:00 p.m. Fifteen members attended in person, and two joined via Zoom.

Self-introductions were the first order of business.

Announcements, Tool Time, the Clinic and more followed the self-introductions. All of these are included in this issue of the Herald. The meeting concluded at 9:02 p.m.

#### **Next Meeting**

The next meeting will be Thursday, November 2, 2023, 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.

#### Video of the Month

This month's video features Malaysia's Jungle Sleeper Train, a modern meter gauge railroad.

https://www.youtube.com/watch?v=ER-NITNuF6So

#### **Upcoming Tool Time**

**November**—The Computer as a Tool-Part II Larry Stephens

#### **Upcoming Clinics for 2023**

**December** – My Life Riding the Rails—Rich Flammini

# Upcoming Show 'n' Tell Themes for 2023

November – Anything Goes and Streetcars/Trolleys

**December** - Cabooses

#### Reminder

In an attempt 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 reported that work on the modules had resumed. Track was being ballasted, ground cover was being applied and repairs were being done on the older sections of the modules.

#### **Announcements**

Gary Myers reminded everyone of November's Regional Convention in Albuquerque, New Mexico (https://www.rmr-nmra.org/2023%20RMR%20RARG%20An-nouncement.pdf) and of the opportunity to meet NMRA President Gordy Robinson on October 29, 2023 at the Colorado Model Railroad Museum in Greeley, Colorado (https://www.cmrm.org/event/meet-the-president-nmra-president-gordy-robinson-visits-the-cmrm/.)

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



#### **Tool Time**

Larry Stephens presented The Computer as a Tool Part I. He has graciously converted his PowerPoint presentation into the Word document presented here.

#### The Computer is now an Important Tool In Our Hobby

We need it for JMRI.
We buy on line.
We attend meetings by Zoom.
We use software for making window details, layout design, etc.
The manuals for the CU's are on a PDF in our computer.
And the list goes on.

Windows 11 Do you need it?

#### Not Right Now, But

Windows 10 is all you need at least for the time being. Windows 11 as of now is just 10 with some window dressing but it is now only a 64 bit

Then why did Microsoft create Windows 11?

Require Windows 11 to run on newer computers that have TPM and Secure Boot. This will put money in both hardware and software venders pockets. This theory has been showing up a lot on the Internet.

The truth is a lot more complicated. Windows is now only a 64 bit system. The hardware needs to be optimized for 64 bit. Some windows 10 computers started out life as windows 7. Computers had to run both 32 bit

Microsoft has in the works:

There is code left over from Windows XP that is going to be recoded. There is no need to insure 32 bit operation.

A unified printer driver. No more drivers from the printer manufacture. Again, 64 bit only.

Improvements in the speed of Windows 11. As Windows 11 under goes changes, only computers with 8th generation and later processors can run Windows 11.

#### SO

Windows 11 will not run right or not at all on older computers. You'll need a computer with at least an  $8^{th}$  generation Intel processor.

There are ways to go back a few generations of processors and load Windows 11. Microsoft may deny updates sometime in the future to these pre 8' generation.

UEFI bios is a requirement. Some older computers do not have this

UEFI bios allows the bios to do so much more for the hardware and Windows 11. It replaced the Legacy BIOS.

PCIe 3.0 and PCIe 4.0 is a speed specification of the I/O part of the system board. Newer system boards have this. Windows 11 can be optimized for this speed.

M.2 SSD (Solid State Disk) is a must to benefit using Windows 11 but not

required.
An M.2 SSD is about 68 times faster than a disk drive.

Why did Microsoft pick TPM and Secure Boot as a requirement? You don't need them to run Windows 11.

Because system boards with these two requirements contain the following technologies.

**UEFI** bios 2002 PCle 3 2010 Secure Boot 2011 M.2 SSD 2012 TPM 2014 8<sup>TH</sup> Gen Intel 2017

The date is when the specification was released, not when implemented.

> What Happens if you stay with Windows 10? Nothing in the beginning but

- 1. As of now no more updates—that's mostly ok.
  2. After October 2025 no more security updates. That could be a problem down the line. If you're using Defender as your virus program, you might have to switch to a third party virus program.

  3. If you use a high end program such as photo editing, 3D printing or cad
- software, you could find software updates requiring windows 11
- 4. Windows 11 updates will address issues with hardware and software that will not be updated in Windows 10.
- 5. Right now the learning curve to learn Windows 11 is less than an hour. In two to three years, Windows 11 might not even be recognizable.

Update: From the time I started this tool time, Windows 11 is now starting to leave Windows 10 in the dust. Changes and additional apps and tools have arrived and more are on the way.

## Start Menu Win 10

It is left orientated. It shows all apps on the left, which is only needed occasionally.



#### Start Menu Win 11

It is now centered For my use, I like it better than Win 10 This is a clip from the Tool Time video From the menu you can access programs, all aps, settings, power and recent files opened



#### File Folders Win 11

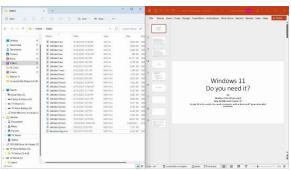
Viewing of two folders is improved This is a clip from the Tool Time video

Example: I will bring up Power Point and I need to look at another folder.

At the upper right, the right window is highlighted by the mouse pointer (blue), left click and Power Point will come up in the right half of screen. The next file loaded will be in the left half of the screen.







# USB 3 vs 2

USB 3 is twice as fast as USB 2, writing USB 3 is ten times as fast as USB 2, reading



#### SSD vs Hard Drive

There are two different SSD Sata and M.2

More on M.2 SSD: https://www.youtube.com/watch?v=HvfleTieXOI



#### Intel Processors

Intel Processor Series

Celeron, i3, i5, i7, i9

#### **Intel Processor Series**

Celeron: Email-light use of Word & Excel.

- i3: Email-moderate use of Word & Excel.
- i5: You use Office Pro, Power Point and edit photos and videos. Even a 3D printer. You're retired.
- i7: All the above on a daily bases. You work in an office. i9: If you need an i9, you'll already know.

#### Components of a system board

Processor: Intel or AMD

Chip set:

Determines the number of Sata ports, memory slots, memory type, memory speed and many other functions.

Plug in boards and M2. SSD. PCle 3.0 common. Used for slow devices

PCle 4.0 common. Used for SSD and GPU

DDR4 is the current type and still the best value for home computers. DDR5 is the newest and works better with 13<sup>th</sup> generation processors. The speed available is determined by the processor and chip set.

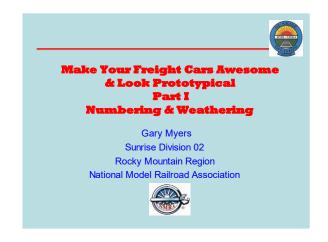


Or you can take the easy route



#### Clinic

Gary Myers presented the evening's clinic on numbering and weathering freight cars.



#### Why bother, why should you care?



- Today's model railroads have become more sophisticated, better models of the actual railroads
- Operating model railroads has grown into a more significant part of the hobby than ever before with an ever more increasing emphasis on realism
- Designing your layout for operating with several engineers has become more and more popular
- This has led to an increased level of realism as more special interest groups, i.e., Modeling & Historical Societies, have gained popularity and membership
- Making your models "look" more like the prototype without having to purchase expensive exact replicas (i.e., brass, resin, etc.) can add value to your layout and its character, charm, and operating experience.

## 42' 8" IL, 10 exterior side stakes

- The prototype; 1952 D&RGW HT Series 18500-18999 Employed in Utah coal service, and later in limestone service from Keigley
- Wine door locks, Miner, Universal or Equipco hand brakes
   At Burnham Shops, awaiting Reweighing (1967 photo)
- - · Note that the car is 15 years old in the photo

### Steps to Updating Your Car Fleet



- Step 1 Research
- Find appropriate materials to help you
- Review photographs of the prototype or similar cars
  Use the vast resource of RR books available
  Check Historical Societies for info, a great reference and probably worth
  joining if you want to model a prototype
- The INTERNET
- Learn the appropriate equipment/arrangement the car should or most likely would have for the era and locale of your RR
- Step 2 Selection

  - ep 2 Selection

    Determine what kind of cars your railroad needs for what facilities you will have and that they are appropriate

    Look at what cars are available by what manufacturer and determine what best fits your budget

    Modeling a prototype RR simplifies this step. If the prototype had them, then they had reason to for these cars to be there. Look at the facilities the RR had on-line, model what you can and get the cars for those industries.

#### Step 2 - Selection: Athearn R-T-R

Rio Grande Coal Hoppers

D & R G W





#### Incredible detail!!



Ri o 6 ran de ...

**a** 

- The model-not your old Blue Box kit
  - Highly detailed, separate grab irons, fine stirrups, available in 12 prototypically correct numbers, detailed brake lines, coal load.
    - Model Upgrade Recommendations:

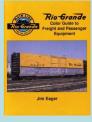
      Upgrade couplers to Ka -Dee #58

      Check wheels for possible upgrade

    - Add real coal to coal load
      Verify weight
      Re-number & weather

#### Step 2 - Research







General Research Books also enable you to match your models to the prototype add realism and improve accuracy to your fleet appropriate for your line.

## Rio Grande Coal Hoppers



- Not the same car exactly, but a good representation for weathering. The photo is 1987 and the car was built in 1966, so about 21 years old Note the color of the wheels and trucks especially against the ballast

#### Step 2 - Selection: D&RGW 40' 3 Bay Ribbed Hopper



- Recently, Athearn has made available the Denver & Rio Grande's SD40T-2 Tunnel Motor, which is remarkably close to the prototype Athearn has also released previously40' 3 -Bay Ribbed Hoppers, which will go very well with this engine to make some nice long unit trains.
  - As we will see, the Athearn 3 Bay Hopper is an excellent match to the prototype
  - Depending on the RR and era, unit trains may or may not be appropriate.
  - D&RGW unit trains were still uncommon in the 1940s
- Determine what your Railroad will run and make sure the cars used have business running on that line
   Unit trains also make good trains running through a territory, as in the case of today's example.

  - Unit trains also require the renumbering of several cars, to avoid the repetition of a single number.

## Rio Grande Coal Hoppers



- Also not the same but similar car, with heavier weathering.
  The photo is 1979 and the car was last shopped in 1977, so only 2 years of
- Note the interior of the car

  Possibly hauled limestone on Monarch branch note ground color





- Again not the same but similar car, with heavier weathering.
  The photo is 1979 and the car was last shopped in 1977, so only 2 years of weathering
- Note the interior of the car and how dust highlights hatches underneath



# Rio Grande Coal Hoppers Again not the same but similar car, showing some age. The photo is 1985 and the car was last shopped in maybe 1982, built in 1960. Note the lettering has actually chipped or flaked away in spots, and the load data and car data are badly worn away This car was assigned to coke service only as marked n a

#### **Model Updates**

- Step 3 Wheels: Upgrade if necessary (Recommend using meta-
  - Improves pulling longer trains by getting less friction on the track, Keeps rails cleaner than the engineering plastic wheels which pick up and spread dirt

  - Test the wheels by spinning them with your thumb in the truck
    They should hum and rotate freely for a relatively long time
    If they do not spin freely for very long, replace with after market wheels like
    Reboxx, Proto2000, etc.
- Step 4 Couplers: Upgrade if necessary (Recommend KaDee)

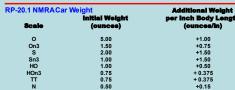
- I use KaDee #58 box coupler and various long shank or whisker versions as the need arises

  Step 5 Load: Obtain materials (if applicable)

  For the hoppers, I picked up chunks of coal to smash and grind up from rail yards down in Salida, Durango and Chama

  Step 6 Extra Detailing (decide if you want more, if you dare ......)
- - Replace molded on grab irons and thick stirrups with wire Add brake linkage and air line details
- Step 7 Weigh Car Include all the above & after extra details are added or available
  - Postage scales are available in drugstores, WalMart, etc.

#### Step 7 - Car Weighing



: HO 40' car = 1 oz + (40'/87' x 12"/1') x.50 oz/in = 1+(5.52 x .50) = 3.76 oz N 40' car = .5 oz + (40'/160' x 12"/1') x.15 oz/in = .5+(3.0 x .15) = 0.95 oz

Weights in excess ofabove Optimal Weight generally degrade performance by increased draffit

Optimal Weight recommended by NMRA RP20.1 to make up for short comings of rough trackwork and sharp curves

Suggestion: For layouts with broad curves and Cars with metal wheels, cars can generally weigh slightly less, approximately -0.5 oz for HO — (these standards were developed for cars with plastic wheels)

#### Step 8 - Renumbering



- Renumber Your Car to Prototype Numbers and renumber duplicates
   Do your research to find what numbers are prototypical for your cars
- Renumbering can be complex or simple

  Remove old numbers and redecal with matching decals; or

  Remove/paint over old numbers with minimal changes

4 1-0-0 6 3 8

Use a very *fine* brush to 'dot' dabs of background paint over the number to mask portions of the old number, and use the number color to 'dot' in the new number over the old masking

Sometimes the old number may also be easily modified by first scraping part of the number with a sharp x-acto blade. Excess paint can usually be scraped away also to clean up the 'new' number.

With practice and some weathering your 'painted' or decaled new numbers will

#### **Model Updates**



- Step 9 Distressing the Lettering

   After the numbers have been updated, use either a weathering brush to vertically streak or an x -acto blade to chip the lettering to give appropriate aging effects.
  - If desired, add small amounts of 'rust', by applying a very light to heavy amount of burnt sienna wash to spots with rust especially to paint chips, seams, hinges, etc.
- Step 10 Trucks

  - Disassemble trucks
     Paint trucks & wheels with Floquil Rail Tie Brown, carefully avoid tire treads, axle points or inside journals.
    - Use small clamps to hold parts (6 per car)
       Dry overpicht
  - Dry overnight
     Dry brush small amounts of rust (Burnt Sienna) underneath journal boxes and on springs.
     Leave unassembled trucks aside to be weathered with car bodies.

### Step 11 - Weathering



- If desired, mask car data and rebuild date for updated shop look
   Update Data & Rebuild date if desired, with decals or renumbering Step 8

- Wear Latex gloves to avoid fingerprints
   Apply very light, short bursts of Dullcote to all weathering surfaces: ends, sides, top & bottom
- sides, top & bottom

  Apply Bragdon weathering powders of desired colors, with soft & stiff brushes

   Soft brushes to delicate parts and hard to reach spots the Dullcote will aid in the powders sticking

   Stiff brushes to primary surfaces, rubbing vigorously to create friction which activates adhesive in the powders

  Apply over an open box which can catch the excess for reuse& storage
- Remove masking from Car Data and Rebuild date Apply another very, very light coat of DullCote to all sufaces.
- The more Dullcote applied, the lighter the weathering will appear Repeat these steps for the trucks but do not get weathering powders in journals where axle points sit

#### Step 12 - Final Assembly



- · Add load
  - In this case, the top rims of the hopper were all weathered, and the coal load added later so the coal itself wouldn't block cracks and get weathered around the edges.
- · Insert wheels into trucks
- Reattach Trucks to Car
- Add new car to your freight roster
- Generate a new Car Card with Waybill
- · Place Rolling Stock on Layout & Enjoy

#### Auction

The Sunrise Division's unofficial auctioneer, Rich Flammini, auctioned an HO scale covered hopper produced by Scale Trains as illustrated here. This limited-edition car was produced for the NMRA's 2023 convention, the Texas Express.

The winning bid was \$80, and the proceeds were deposited in the Division's treasury.



A second identical car will be auctioned at the November meeting. If you would like to bid on the car, attend the November meeting, in-person or on Zoom.

## 2023 RMR Annual Convention

# RAILS ALONG THE RIO GRANDE

# Albuquerque, NM November 10-12, 2023

# Registration Form (Until October 27th)

ATTENDEE	1 Day* \$55 \$30		\$75 \$45		
Primary					
Each Household Family Member					
Non-NMRA Member Primary Additional Fee	\$20			\$20	
Total Registration			· ·		
* includes one breakfast buffet, evening refres ** includes two breakfast buffets, two evenings		nents			
Primary + Family (household) members attended	ding: _				
Names (to appear on badges):					
Local Division:					
Please circle: 1 Day or All Days					
Dates:	Nov 9	Nov 10	Nov 11	Nov 12	
Please Circle: Planned Arrival Date	Thurs	Fri	Sat	Sun	
Please Circle: Planned Departure Date	Thurs	Fri	Sat	Sun	
Please check here if staying at the Convention	Hotel	. <del>y.</del>			
Please make checks payable to: Rocky Mour	ntain Reg	ion			
Print this page, fill out, and Mail form and o	heck to:				
Rocky Mountain Region Convention					
c/o Denny Krausman					
9609 Silver Hill Cir					
Lone Tree, CO 80124-5420					

Prices subject to change, registration cost increase after October 27th

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