

RPO

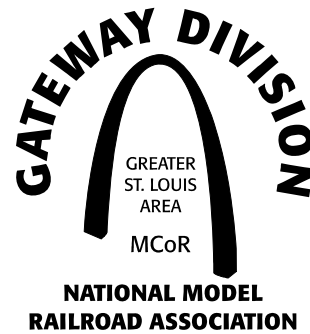
Fall 1993
Vol. 1, No. 3

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Gateway Division - Mid Continent Region - NMRA

RPO

Fall 1993: Volume 1, Number 3

The *RPO* is the official publication of the Gateway Division of the Mid-Continent Region (MCoR) of the National Model Railroad Association (NMRA).

Editor:

Richard Schumacher

Cover Photographer:

Brad Joseph

This Issue's Contributors:

Steve Goaring

Chris Thies

Your name could be here!

Articles, photos, and other materials for publication are to be sent to the Editor. No payment can be made for publication of any materials. Items submitted for publication must arrive by the first of the month prior to the issue date. Issues are published quarterly: Spring, Summer, Fall, and Winter.

Subscription to the *RPO* is one of the services provided by membership in the Gateway Division. Send new membership applications to the Treasurer.

The editorial content of this publication reflects the opinion of the Editor only, unless otherwise credited, and does not necessarily reflect the policy of the Gateway Division.

Advertising of interest to our membership is accepted for publication in the *RPO*. Contact the Editor or Treasurer for current rates and artwork size information.

Please send submissions, suggestions, letters, and address corrections to:

The Editor, RPO
c/o Richard Schumacher Associates
PO Box 510500
St. Louis MO 63151-0500

Articles may be submitted in any format (handwritten, typed, or plain unformatted text on disk - either 3.5" or 5.25"), photo submissions are currently limited to 35mm color slides or 35mm negatives.

The *RPO* is composed in *Microsoft Word for Windows* and imaged on a 600 dpi QMS PostScript laser printer.

Whistle Stop

by Christopher Thies

The main goals we held for the 1993 Gateway Division Show were to educate, inspire, and entertain the modeling community and the general public. For those of you that were able to attend, I am sure that you will agree that all three goals were very well met. The quality of the clinics, modular operating layouts, model contest, door prizes, and home layouts made the show a success. It is too soon to tell how successful financially the show was at the time this was written, but we will let you know in upcoming Division meetings and issues of the *RPO*.

This is my last Whistle Stop as the next time the *RPO* is published, the Gateway Division will have a new Superintendent. I would like to individually thank those volunteers who have helped make this year into a good year for the Gateway Division, but there are just too many. The Division will have passed the 100 member mark from those signed up at the show and we have only been in existence for less than two years. This indicates that the Division must be doing something right.

The new officers of the Division will need your support and assistance to keep our organization growing. The level and quality of services available can only increase with everyone's active involvement. Take a look at what the division is doing and see where you might be able to help. It is only through your involvement that the organization can grow and improve upon its membership services. Let the officers know of your desire to help and together we can find something that will be enjoyable for you.

Special Thanks To.....

all the 1993 Gateway Division Show committee. Over the last year, lots of work went into the show to make it the success that it was. Some of the work was difficult at times, but it is a great and rewarding feeling to see that work turn into something enjoyable and fulfilling. To all on the committee, thanks for the job well done.

Some thanks are in order for people and groups outside of our organization who offered assistance that helped make the 1993 Gateway Division Show a success. The ones listed below are the ones I knew about. Other people and organizations may have also assisted and any omissions are my mistake.

The *Hobby Station* generously assisted in the publication of the show guide. The guide had a very professional appearance and contained the day's schedule, listings of clinics and door prize donors, and the layout tour maps and descriptions. In return for sponsoring the guide, *Hobby Station* got the back cover for a full page ad.

Another hobby shop found a unique way to help. John Schindler almost had to cancel his layout from the layout tour but *Tinkertown Hobby Shop* came to the rescue. John uses the Onboard Command Control system and he had a major equipment failure on the Wednesday before the show. Onboard was not able to deliver replacement parts in time. The folks at *Tinkertown* heard about John's predicament and offered to loan him the store's Onboard demo unit. Thanks to their assistance, John was able to operate his layout for the layout tour visitors.

On your way to the show, you may have noticed big signs with arrows along the road that said "**Train Show**". These signs were courtesy of the *Mississippi Valley N Scalpers*, who also helped by placing their modular layout on display at the show. It is hard to tell how much the signs helped in drawing people into the show but considering the significant increase in paid attendance we had, the signs had to play a part.

The Gateway Division has now had several meetings at the *Camelot Bowl* in Collinsville, Illinois. At each one, the attendance increases, both from higher attendance of Division members and from new faces. The December meeting will be in Collinsville. I hope to see more Missourians there as it is only 10-15 minutes from downtown.

Membership Directory

The Gateway Division membership directory will be published for distribution at the December meeting.

If you have not already done so, please complete the questionnaire (which can be found on the yellow page in this issue) and return as soon as possible to Richard Schumacher (Box 510500, St. Louis, MO 63151-0500) or hand deliver it to Richard at the November Division meeting.

Any members not completing and returning a questionnaire by December 1st will be listed in the directory with name and address only.

Call Board

Superintendent
Christopher Thies
(314) 845-1987

Assistant Superintendent
Randy Meyer
(314) 579-0933

Division Director
Herb McCurdy
(314) 487-9291

Secretary / RPO Editor
Richard Schumacher
(314) 846-2224

Treasurer
John Lee
(314) 638-0515

Event Committee Chairman
Phil Sheahan
(314) 832-0843

Achievement Program Chairman
Brad Joseph
(618) 233-8140

Achievement Program Assistant
Chairman (West)
Randy Meyer
(314) 579-0933

1994 Division Meet Committee
Chairman
Randy Meyer
(314) 579-0933

Membership/Promotion Committee
Chairman
Christopher Thies
(314) 845-1987

Division Store

The Gateway Division will not be selling any NMRA or Region products until the Division's incorporation paperwork is final and we receive our Missouri Resale License.

Final Results

Gateway Division Nov. 6, 1993 Annual Meet Model and Photo Contest

by Steve Goaring

Steam Locomotives

- 1st Bob Schafer
CB&Q Hudson 3001
- 2nd Bob Schafer
CB&Q "Aeolus" streamlined loco
- 3rd Tom Dooling
MoPac Berkshire

Passenger Cars

- 1st Bob Schafer
CB&Q RPO
- 2nd Jackson Fromme
MKT RDC car
- 3rd Bob Schafer
CB&Q "Pendulum" car

Diesels - 1st & 2nd Generation

Novice

- 1st Scott Bimson
MKT SD40-2
- 2nd John Kohlberg
GM&O GP35
- 3rd Walter Lehmann
NYC E7 A-A units

Master

- 1st Jim Lunch
Cotton Belt SD45T-2 9376
- 2nd Ed Dressel
C&NW SD45 "cat"
- 3rd Jackson Fromme
MoPac switcher

Diesels - 3rd & 4th Generation

Novice

1st Brad Joseph
UP C40-8W

2nd Dan Osborn
MoPac SW1500 & slug set

3rd Dan Osborn
MoPac GP50

Master

1st Ed Dressel
UP SD60M

Freight Cars

Novice

1st George Hayduk
D&H boxcar

2nd Jack Brenner
D&RG boxcar - narrow gauge

3rd John Kohlberg
ICG panel track car

Master

1st Mike Swederska
Gramps tank car narrow gauge

Cabooses

1st John Kohlberg
GN transfer caboose

2nd John Kohlberg
A&S transfer caboose

3rd Dan Schnuriger
GN caboose

Maintenance of Way

1st Ed Dressel
C&NW MoW cars & burro crane

2nd Tom Troughton
Tool car

3rd Tom Schuhardt
Fire Train

Structures

Novice

1st John Kohlberg
IC Gilman coal tower

2nd John Spencer
Roof top water tanks

3rd Tom Troughton
Water tank

Master

1st Phil Sheahan
Sand & coal shed

2nd J. Leslie Walker
Engine house

3rd Phil Sheahan
Lumber mill

Diorama

Novice

1st Tom Troughton
Engine house scene

2nd John Weis
Ozark RR

3rd Kevin Hampton
Kitbashed station & terminal

Master

1st Ralph Boyd
150 ton coal tower

2nd Phil Sheahan
Water tank & tool shed

3rd Phil Sheahan
Water tank

Whole Train

1st Tom Schuhardt
IC work train

2nd John Kohlberg
ICG freight train

3rd Bob Schafer
CB&Q freight train

Modules

1st Glenn Koproske
River module

2nd Don Take
FS grain elevator

3rd Glenn Koproske
Carnival module

18 & Under Locomotives

1st Jeremy Janzen
ATSF switcher

18 & Under Rolling Stock

1st Quin Swederska
C&M boxcar

2nd Jeremy Janzen
COFC car

Model Photo - Black & White

1st Ken Patterson
ATSF in cornfield

Model Photo - Color Print

1st Ken Patterson
UP locomotives in snow

2nd Brad Joseph
UP at Fort Collins

3rd Brad Joseph
Locomotives at Cheyenne

Model Photo - Slides

1st Brad Joseph
Fort Collins

2nd Brad Joseph
GN Steamer

Prototype Photo - Color Print

1st John Mohen
Donner Pass

2nd Kevin Hampton
X2000

3rd (tie) Tom Schuhardt
1522 steam

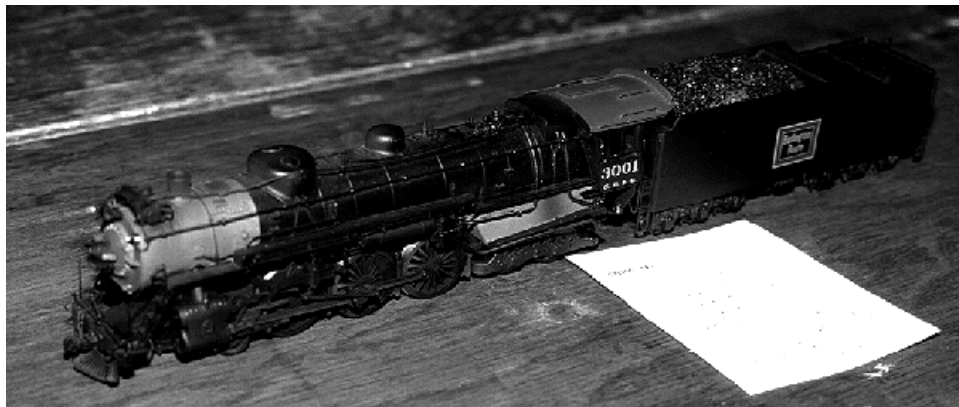
3rd (tie) Steve Goaring
Challenger in snowstorm

Prototype Photo - Slides

1st Steve Goaring
Flood detour in front of Arch

2nd Steve Goaring
MKT - Arch

3rd Dennis Norris
UP SD60's



Steam Locomotives - Bob Schafer

Photographs of some first place model contest winners are by Steve Goaring



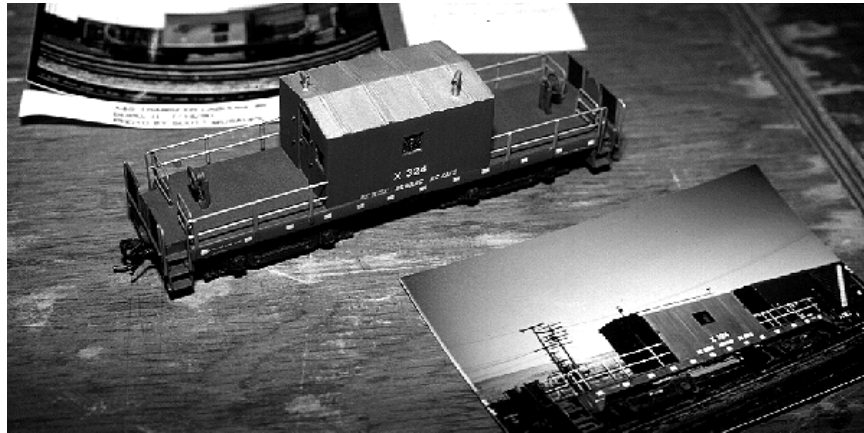
Freight Cars Master - Mike Swederska



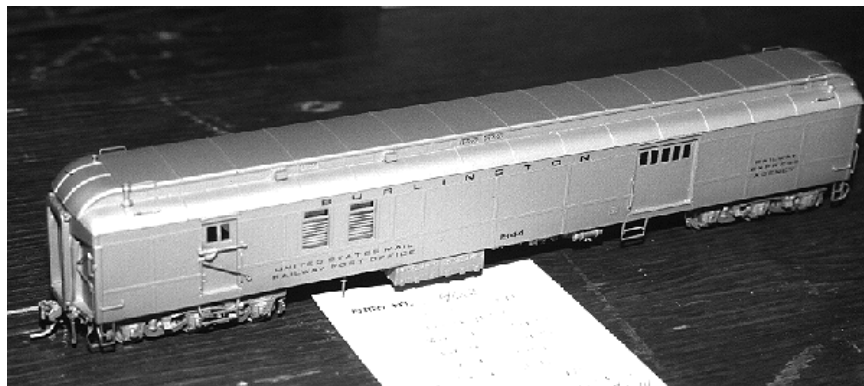
Freight Cars Novice - George Hayduk



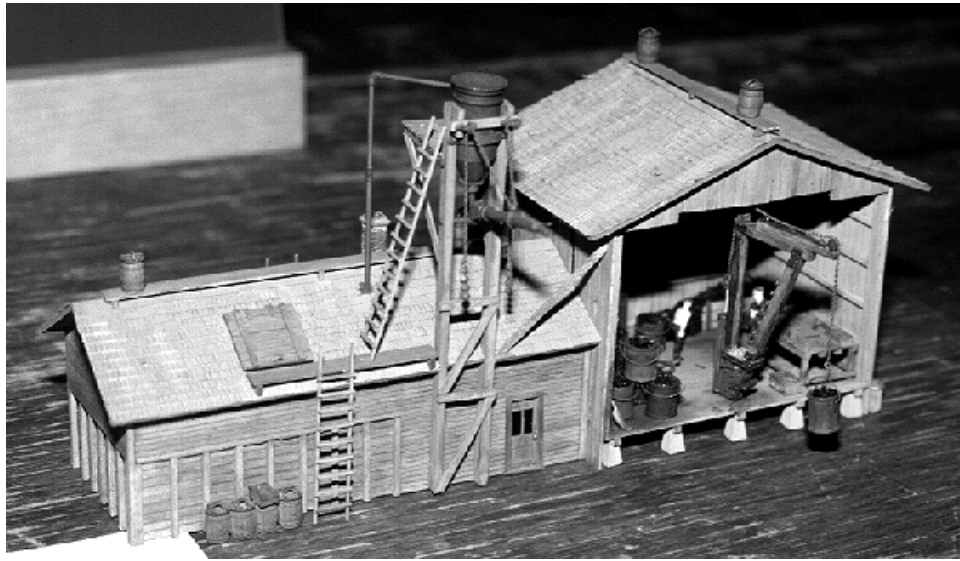
Diesels 3rd & 4th Generation Master - Ed Dressel



Caboose Novice - John Kohlberg



Passenger Car - Bob Schafer



Structures Master - Phil Sheahan



Diorama Novice - Tom Troughton

Calls for Assistance

Gordon Cannon requests suggestions for future product offerings (diesel detail castings, etc.). Michael Alan Thomas, 4211 Castleman Avenue, St. Louis, MO 63110, 314-771-0680 will collect your suggestions and forward them to Gordon. Please have your suggestions to Michael by Dec. 15th!

Both Illinois and Missouri layouts are needed for the 1994 annual meet layout tour. All scales! Anyone have a new layout they want to show off? Call Hank Kraichely at 314-394-5151.

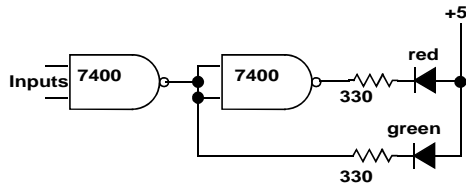
Randy Meyer is looking for comments, suggestions, and volunteers for the 1994 Division Annual Meet.

Somebody please send an article for the *RPO*! Think "AP Author Points"!

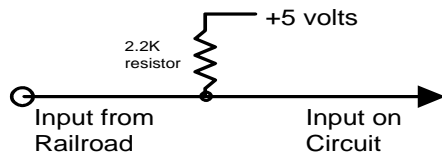
Adventures in Wiring

by Richard Schumacher

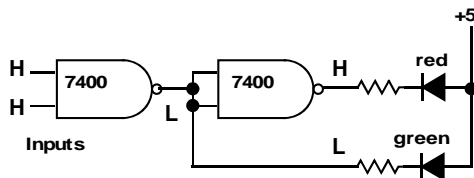
Last issue we saw that the signal logic is constructed with 2-input NAND gates. On any gate, when either input is "low" the output will be "high". If both inputs are "high" the output is "low". Using two gates, we created a circuit for a single two-color signal head. When either input of this circuit is made "low" the "red" LED lights, when both inputs are "high" the "green" LED lights instead.



Unconnected inputs default to the "high" state. We add pull-up resistors to the input lines to ensure this default condition is stable (otherwise the circuit will "flicker" from electronic noise sources - like Tyco locomotive motors).

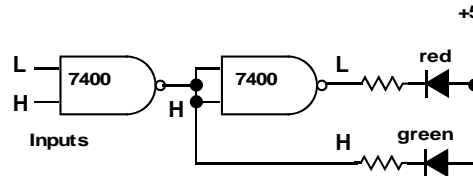


For our circuits, a connection to the signal circuit ground is the "low" condition, and a connection to +5 is "high". Let's see what happens when both inputs are set "high" (H):



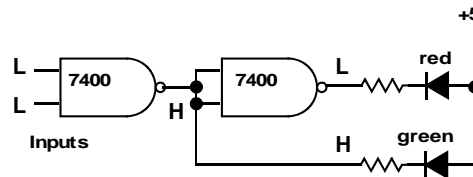
When both circuit inputs are "high", the output of the first gate is "low" (L). This point is directly connected to one side of the green LED. Since the other side of the green LED is connected to "high" (+5), current flows through the green LED and it lights up. The second gate has two "low" inputs, so its output is "high". The red LED has "high" on both sides, so it doesn't light up.

Let's see how this changes when one of the circuit's inputs is "low" (L):



In this case, the output of the first gate is "high" (H). The green LED now has "high" on both sides, so it doesn't light. The second gate has two "high" inputs, so its output is now "low". The red LED has "low" on one side and "high" (+5) on the other, so it now lights.

It turns out that when both inputs to this circuit are "low", the same thing happens - red is lit and green is not:



Since both inputs to this circuit are "equal", it doesn't matter which one is "low" - if either or both are "low" the red LED will be turned on.

Why would we need two inputs for the signal? Because most signals have two different events that can cause a red indication - but that's next time.

