

CALLBOARD

President
Whitney D. Johnson
1117 E 16th St S
Newton, IA 50208-5076
(641) 792-0712
E-mail: whitjohnson@mchsi.com

Vice-President Allen G. Merta, MMR 5919 Purple Dr. NE Cedar Rapids, IA. 52402-1317 (H) 319-393-2990 E-Mail: ar.merta@mchsi.com

504 Pioneer Rd Papillion, NE 68046-3778 (H) 402-597-3988 E-mail: blundquist1@cox.net

Secretary

Barbara Lundquist

Robert Folkmann 1326 Burnett avenue Ames, IA, 50010-5454 (H) 515-232-8689

Treasurer

E-mail: rfolkmann@mchsi.com

Membership Chairman Steven P August 1605 S W Eling St. Bentonville, AR 72712-9551 (479)96-7986

E-mail steven@august.org

Membership Dispatcher John A. Shaw 225 Wasatch Court NE Cedar Rapids, IA 52402-3386 (H) 319-265-8122 (C) 913-636-3710 E-mail: jashaw@shaw-web.net New Member Chairman Richard Hester 1407 E Fair Acres Dr McCook, NE 69001-4208 (308) 345-5528 E-mail richardhester017@gmail.com Member Aid Co-chairman Mei John Plott John 2109 Ave M 149 Council Bluffs, IA 51501-0968 Indi (712) 323-7153 (51! E-mail trains20@cox.net E-m

Member Aid Co-chairman John H. Averill 14910 92nd Ln Indianola, IA 50125-7261 (515) 961-3018 E-mail GMDMCoR@cs.com

Achievement Program Chair Brad Morneau MMR 7705 W 154 Terr Overland Park KS 66223-2280 (913)-897-0669 E-mail: bmorneau@kc.rr.com Education Chairman
Don Wetmore
614 Osage Dr
Papillion, NE 68046-2433
(402) 740-9642
E-mail StJoeTerminal@cox.net

Merit Badge Coordinator Bob Folkmann 1326 Burmett Ave. Ames, IA 50010 (515) 232-8689

E-mail: rfolkmann@mchsi.com

Internet Webmaster
John A. Shaw
225 Wasatch Court NE
Cedar Rapids, IA 52402-3386
(319) 265-8122
Cell (913) 636-3710
E-mail jashaw@shaw-web.net

Convention Chairman Larry R. Alfred, MMR 14633 S Chalet Dr Olathe, KS 66062-2527 (913) 782-6584 E-mail captlalfred@gmail.com

2013 Convention Chairman Larry R. Alfred, MMR 14633 S Chalet Dr Olathe, KS 66062-2527 (913) 782-6584 E-mail captlalfred@gmail.com Area Meet Chairman Louis Seibel 1096 N Logan Olathe, KS 66061 (H) 913-393-3495 (C) 913-927-6850 E-mail L-Seibel@comcast.net Clinic Chairman
Don Wetmore
614 Osage Dr
Papillion, NE 68046-2433
(402) 740-9642
E-mail StJoeTerminal@cox.net

Kate Shelley Division - 2903

Richard W. Liebich (Mary)

Rippey, IA 50235-0285

E-mail: mliebich@iastate.edu

Bentonville, AR 72712-9551

E-mail steven@august.org

(H) 515-436-7765

Maple Leaf Area

Steven P August

(479)96-7986

Little Rock Area

Platte Valley Division

Todd L. Peterson

(H) 308-832-2050

984 K Road

Vacant

1605 S W Eling St.

Box 285

121 Main St

Model Contest Chairman Ryan D. Moats MMR 15621 Drexel Circle Omaha, NE 68135-2358 (H) 402-894-9423 E-mail: blackhawk@canonicalblue.org Photo Contest Chairman Allen G. Merta MMR 5919 Purple Dr. NE Cedar Rapids, IA 52402-1317 (319) 393-2990 E-mail ar.merta@mchsi.com

BOARD OF DIRECTORS

Indian Nations Division
Dave Salamon
17924 E 92nd St N
Owasso, OK 74055-8068
(H) 918-272-5512
E-mail: drs_rr@yahoo.com

Kansas Central Division - 2906 David Heinsohn 2346 C Rd Elmdale, KS 0-9774 (H) 620-273-7037 E-mail: kd0r@fhrd.net

Ozark Mountain Area James F. Dimatteo 190 Western Ave Branson, MO 65616-8618 (417) 239-0436 E-mail jbdimatteo@aol.com

Northern Oklahoma Area

Dan L. Harris PO Box 3604 Enid, OK 73702-3604 (580) 233-4452 E-mail harris_danl@sbcglobal.net

Fallen Flags Division Rev. Douglas Harding Box 472, Keosaqua, IA. 52565-0472 (H) 319-293-3131 (C) 319-288-1126 E-mail doug.harding@iowacentralrr.org Turkey Creek Division Louis Seibel 1096 N Logan Olathe, KS 66061 (H) 913-393-3495 E-mail L-Seibel@comcast.net

Chisholm Trail Division Philip R. Aylward 603 Chestnut St Halstead, KS 67056-2302 (316) 830-3498 E-mail aylward1@cox.net

Northern Arkansas Area Vacant

vacanı

Western Kansas Division Robert A. Simmons 2710 Shamus St. Garden City, KS 67846-3251 (H) 620 521-3591 E-mail trainman55@hotmail.com

Nebraska West Central Div. Gene R. Tacey PO Box 485 Sutherland, NE 69165-0485 (308) 386-2489

E-mail taceys@gpcom.net

Great Midwestern Division John H. Averill 14910 92nd Ln Indianola, IA 50125-7261 (H) 515-961-3018 E-mail rrdoc01@hughes.net

Minden, NE. 68959-6011

E-mail: todd@gtmc.net

Eastern lowa Division
Benjamin A. Merta
3140 25th Avenue
Marion, IA, 52302-1413
(319) 447-5899
E-mail bermerta@gmail.com

South Central Missouri Area Brad Slone MMR PO Box 313 Dixon, MO 65459-0313 (573)308-7144 E-mail bradslone@yahoo.com

Cowboy Line Division James B Van Delden 902 Nebraska St. Wayne, NE 68741-1428 (402) 833-5581 E-mail genjvan@msn.com

Iowa Rails Area Michael E. Worley 320 E 13th St Washington, IA 52353-2643 (319) 653-3782 E-mail meworley@iowatelecom.net

Southern Arkansas Area Vacant Western Heritage Division Barbara Lundquist 504 Pioneer Rd Papillion, NE 68046-3778 (H) 402-597-3988 E-mail: blundquist1@cox.net

Gateway Division - 2910 Henry W. Kraichely (Carolyn) 716 Reinke Rd Ballwin, MO 63021-4741 (H) 636-394-5151 E-mail: hkraichely@sbcglobal.net

Oklahoma Heartland Division Royce Brown 4105 Madison Avenue, Mooore, OK. 73160-7685 (H) 405-216-3107 E-mail wn5l.royce@gmail.com

North Central Missouri Area Todd Leftwich 700 Lewis St Canton, MO 63435-(H) 573-288-5972 E-mail: redmountainspike @hotmail.com

Caboose Kibitzer

Official quarterly publication of the Mid-Continent Region of the National Model Railroad Association

www.mcor-nmra.org

Editor

Ted Tschirhart 4954 Marsh Avenue Kansas City, MO 64129-2111 (816) 861-3449

caboosek@kc.rr.com

Assistant Editor

Robert A Simmons 2710 Shamus Garden City, KS 67846-3251 (620) 272-0444 trainman55@hotmail.com

Advertising Manager

Louis Seibel 1069 N Logan Olathe, KS 66061-6321 (913) 393-3495 *I-seibel@comcast.net*

Submissions: The Caboose Kibitzer welcomes articles, photographs and other model railroad or railroad-related contributions. Contact the editor for more information.

Advertising: All advertising inquiries should be directed to the Advertising Manager. MCoR reserves the right to refuse or drop advertising for any reason. Advertising in the Caboose Kibitzer in no way constitutes an endorsement by MCoR or the NMRA.

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Photos by Louis Seibel

waybill

Second

Volume 63, Number 2

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NEXT QT?

What will you send me To put in this newsletter

caboosek@kc.rr.com

Photos must be 600 dpi 816-861-3449

Dead line for 3QT July 30, Dead line for 4QT January 31, 2014 Don't run just hurry.

ted

The Head End

by Whit Johnson MCOR PRESIDENT

Greetings!

Congratulations to Joel Priest MMR 503! The newest MMR in the Mid-Continent Region NMRA.

It is my pleasure to introduce the recently elected officers of the Mid-Continent Region, NMRA. At the recent convention the election results were finalized and accepted. At the close of the convention the new Secretary, Barbara Lundquist, and Treasurer, Robert Folkmann, took office. On September 1, Phil Bonzon MMR will take office as the Region Vice President. I would like to take this opportunity to thank Brad Morneau MMR, Dennis Brandt MMR, and Allen Merta MMR for there service the past few years as our Region Officers.

The Turkey Creek Division hosted the

annual convention this year. It was a great time. I am excited about the next few years as the convention is being hosted in some locations we have yet to experience. In 2014, it is my hope that you will make plans to join with the Southeast Region NMRA and the Mid-Continent Region NMRA as we are having a joint convention in Memphis, TN!

This year at the convention we had a great turnout for the contest. Moats MMR is the newly appointed Mid -Continent Region Contest chairman. Ryan is working with some people to create and setup a couple of new contest categories for the Region contest. Please keep and eye out for these in upcoming issues of the Kibitzer.

The Kibitzer publishing team is in need of our help as well. They are looking for articles for the magazine that help us to

share our hobby. Modeling articles and other special interest articles are welcome.

This is our region, each of us has an idea of what we enjoy in our hobby. Please share that with us either through your directors, or officers. Your voice needs to be heard. National is working on changes for the future and we need to watch the updates from them as well for information. Please if you have a suggestion or question send it in, to the officers of the region, or even send it to National.

Remember, this is our hobby, our NMRA, as members we need to work together so that we can share it with the modelers yet to come.

Keep the rails shining!

Conductor's Call **BY TED TSCHIRHART Editor**

> Please send any changes address email deaths Send to your information to Your director see page 2.

Editor Ted Tschirhart 4954 Marsh Avenue Kansas City, MO 64129-2111 (816) 861-3449 caboosek@kc.rr.com



HAVE 50 MODEL RAILROADING CLINICS RIGHT IN YOUR LIVING ROOM.

Just because you can't make it to a national convention doesn't mean you have to miss out. Right now the NMRA's Kalmbach Memorial Library has over 50 DVDs of clinics presented at national conventions from 2002 to 2010. Each is available for NMRA members to borrow for the cost of processing and postage.

So you can see clinics on everything from decoders to design, tools to techniques, helixes to highways, and research to resin casting.

All from the comfort of your very own couch.

Visit www.nmra.org and go to the Kalmbach Memorial Library page for a complete listing. Or call the Library at 423-894-8144.

Then, get that popcorn ready.

We make it even more fun. www.nmra.org

NMRA AP Group Rules and Regulations

The NMRA Achievement Program Yahoo Group is for those who are members of the NMRA and are working on their Achievement Program Certifications. Here you can get questions answered, find a mentor/coach, or get a kick in the pants to get you started. The group is about helping people.

We REQUIRE that you be an NMRA member and if you are signing up, please provide us your NMRA membership number. Not a member? Please join! www.nmra.org. While you are there, read the rules and regulations for the Achievement Program.

http://www.nmra.org/education/achievement/

90% of the questions that are being answered on the forum are in the regs.

Naturally things turn to the dark side from time to time, so here are some guidelines.

BEFORE YOU HIT SEND, ASK YOURSELF...

Did I ask for help? Did I help someone?

If your message can't pass the test then you are probably talking about NMRA politics, whining, complaining or way off topic. Please be on your best behavior. This is a fun site and we would like to keep profanity and rudeness off the list. The moderator has an itchy trigger finger!

Topics that are allowed:

- AP Topics on any of the 11 possible AP Certificates
- MMR questions
- National/Regional/Divisional/International AP Chairman questions
- Questions about contest rules
- Questions about model research, assembly, et al.

Questions about merit judging

Topics that are NOT allowed:

- NMRA politics
- Recommendations for improving/modifying or changing AP guidelines (send those to the NMRA)
- Politics in general
- Religious topics
- Off topic gags and jokes

Accusations or criticism of any member

This is a PRIVATE group for friends that are working on their NMRA and Moderators are not required to warn members of being put on moderate status or suspension or removal of membership. While we are not an NMRA sanctioned group, we do follow NMRA rules and will act to promote the organization.

If you are moderated/banned from the group and you think it was done unfairly, you are welcomed to contact the list owner Scott Perry at scottgperry@comcast.net.

Please address questions to Scott Perry at scottgperry@comcast.net. We're glad to have you aboard!

Scott Perry List Owner

REGIONAL DIRECTORY

MID-CONTINENT REGION

www.mcor-nmra.org

INDIAN NATIONS DIVISION

www.tulsanmra.org

TURKEY CREEK DIVISION

www.tc-nmra.org

KATE SHELLEY DIVISION

www.mcor-nmra.org/division/KateShelly

EASTERN IOWA DIVISION

www.eid.mcor-nmra.org

WESTERN HERITAGE **DIVISION**

www.whdnmra.info

KANSAS CENTRAL DIVISION

www.mcor-nmra.org/Divisions/ <u>KansasCentral</u>

GATEWAY DIVISION

www.gatewaynmra.org

OKLAHOMA HEARTLAND DIVISION

www.okcnmra.org

REGION **CLUB ROSTER**

Big Bend Railroad Club, Inc. 8833 Big Bend Blvd. Webster Groves, MO 63119-3731

www.bigbendrrclub.org

Facebook

secretary@bigbendrrclub.org

Capital City Model Railroaders PO Box 243 Jefferson City, MO 65102

(HO)

Central AR Model RR Club P.O. Box 1825 Conway, AR 72033-1825 Daniel Gladstone 501-269-3030 www.artrains.org

<u>(all)</u>

Claremore & Southern 3049 Clover Creek Dr Claremore, OK 74017

Columbia Model Railroaders

410 Camelot Dr Collinsville, IL 62234

Eastern Jackson County Mainliners Model Railroad Club Outlet Mall, Odessa, Mo www.easternjacksoncountymainline

s.com

Greater Kansas City Model Railroad Club

Walter L. Ohrnell, President 6060 NW Waukomis Dr. N.W. Kansas City, MO 64153

wohrnell@kc.rr.com

No web site at this time Brush Creek and Western - three tier scale railroad, era between 1935-1975

Greater Omaha Society of Model Engineers

Post Office Box 67 Council Bluffs, IA 51502 **Brian Wiaters**

402-895-0296 or 402-491-3692

SOME@TheHistoricalSociety.org

HO, G,O

Green Valley Baptist Model RR 11993 County Rd 162 Savannah, MO 64485 Nancy Adams 816-262-0304 nadaams@bi-vetmedica.com Kansas Area N-Trak

2046 S Elizabeth #1306 Wichita, KS 67213

(HO)

Kansas Central Model Railroad Club Charles Moll 3106 Tulane Place Hutchinson KS 67502 c.moll@sbcglobal.net H) 620-663-8167

Kansas City Garden RR Society

David Roberts 24595 Hedge Paola, KS 66071

GScalefun@hotmail.com

913-406-3400

Kansas City Module "O" Jack Ferris, Secretary/Treasurer 10334 Ash

Overland Park, KS 66207

fhs1955@gmail.com

2 Rail O Scale Modular Layout - double track main line with 4 track staging yard plus On3 single track loop. Control is wireless DC. (O)

Kansas City Soc. of Model Engineers John Teeple, President 9539 Perry Ln. Overland Park, KS 66212

913-492-4142

jsteep@aol.com Kirkwood Railroad Association

Rich Velten, Treasurer 100 N. Sappington Rd Kirkwood, MO 63122

rmvelten@swbell.net www.krra-stl.org

We meet every Thursday evening from 7:00 PM to 9:00 PM.

НО

Manhattan Area Rail Joiners 1223 Pierre St Manhattan, KS 66502-4331

Contact: Don Clagett

dclagett@ksu.edu 785-537-7624

Mississippi Valley N Scalers 20 Apostle Ct

Fenton, MO 63026 http://mvns.railfan.net mvns@railfan.net

(N)

Missouri Northern Railroad Society Inc. PO Box 12591

North Kansas City, MO 64116

Modular HO Narrow Gauge Society 914 Summer Leaf Ct

Saint Peters, MO 63376

(HO)

Mo-Kan RailJoiners 1069 N Logan Olathe, KS 66061 913-393-3495 I-seibel@comcast.net

(all)

Nebraska Railroad Museum 1835 N Somers Avenue Fremont NE 68025 1'-1'

Dave Fachman 402-727-0615

fevr@fremontrailroad.com Www.fremontrailroad.com Nishna Valley Railroad Society 1303 Eighth St Harlan, IA 51537

(HO)

Northeast Kansas Garden Railway Society (NEKAN-GRS)

1308 SW Caldon

Topeka, KS 66611-2412 Northwest Kansas Model Railroad Club , 603 S Smokyhill,

Oakley, KS 67748-2321

Oklahoma N-Rail Bruce Alcock, President P.O. Box 96131 Oklahoma City, OK 73143

info@oknrail.org http://www.oknrail.org

N Scale

Layout at Crossroads Mall, I-35 and I-250 next to where Macy's used to be. Open Saturday 10am to 9pm and

Sunday, noon to 6pm.

Ozark Model Railroad Association 424 W Commercial Springfield, MO 65803

Parsons Model Railroad Engineers Cherryvale Depot Cherryvale, KS 68335

(HO)

Southern Illinois Train Club PO Box 1633

Mrion, IL 62959-7833

(HO, N, G)

Southwest Independent Modular Railroaders 3107 W Capitol Little Rock, AR 72209

The Sugar Creek Model Railroad & Historical Society Inc.

PO Box 5452

Bella Vista, AR 72714 (all N modules for shows)

Tri-City Model Railroad Association 607 S Shore Dr Hastings, NE 68901

(HO, N)

Union Station Kansas City Model RailRoad Society

Ted Tschirhart 816-816-3449 30 West Pershing Road Kansas City,. MO 64108

9am 5pm tedtschi@kc.rr.com

N,HO, HO MARKLIN, S, O, G, STANDARD Also WOOD Trains

Warren County Modular Railroaders Transition era. RI &CB&Q Iowa's only 100% NMRA club John Averill 515-961-3018 14910-92nd Lane Indianola, IA 50125 HO Scale,

WCMR1@cs.com Wichita Model Railroad Club PO Box 48082 Wichita, KS 67201

> Please send new club info Or any changes to caboose@kc.rr.com

THE SWITCH LIST

SECOND QUARTER 2013 By Louis Seibel

THE SWITCH LIST - August 2013

*new since last issue

The Switch List contains all known Mid-Continent Region, NMRA, train shows and Division meetings. It also lists all known club shows and swap meets in the Mid-Continent Region (IA, IL, MO, AR, NE, KS, and OK). To list your event information please

Email: <u>l-seibel@comcast.net</u>, or Mail Information: Louis Seibel, 1069 N Logan, Olathe KS 66061. To subscribe, or unsubscribe, to The Switch List send an email to the above link. Look for us on the MCoR web site: <u>www.mcor-nmra.org</u>. <u>Please put me in your newsletter.</u>

DIVISION MEETINGS

COWBOY LINE DIVISION (NORFOLK, NE) meets 3rd Thursday each month, 7:00 P.M. at Hy Vee East upstairs meeting room. Corner of 1st Street and Norfolk, Ave. Info: James B Van Dekden, Div. Dir. 402 833-5531 or genjvan@msm.com for more information.

Eastern Iowa Division: For division activities check out our website monthly at: https://sites.google.com/site/easterniowadivision/ or the division's Facebook Page at: Eastern Iowa Division. For further information you can contact the division's Superintendent, Tony Bowen, MMR at: railroadteacher@gmail.com

GATEWAY DIVISION (ST. LOUIS, MO) meets 3rd Monday each month, 7:00 P.M. Odd numbered months: Trinity Lutheran Church, 14088 Clayton Road at Woods Mill Rd (Hwy 141), Ballwin, MO; Even numbered months: VFW Hall, O'Fallon, IL http://www.gatewaynmra.org/division.htm

INDIAN NATIONS DIVISION Unless otherwise specified, all Indian Nations NMRA meets are held at the new Hardesty Library, 8316 E. 93rd. St., just east of Memorial Rd. in Tulsa, OK. The library opens at 9:00 am and the meetings start at 9:30 am. Web page: www.tulsanmra.org Superintendent - Dave Salamon (918)272-5512 or drs_rr@yahoo.com

KANSAS CENTRAL DIVISION Meetings are at 1:00 pm. For the full schedule check the MCoR website or email: garyonho@cox.net

KATE SHELLEY DIVISION meets the 4th Thursday of every month except Nov. which we meet the 3rd. Dec. we have no meetings. The Ames Public Library is being remodeled, so contact KSD officers per the NMRA website for latest meeting place. This arrangement is in effect until mid-summer 2014. Business meeting starts at 6 PM and at 7 PM we have a get together, anything railroad goes. The Library is at 515

Douglas Ave. Contact KSD thru the NMRA web site.

OK HEARTLAND DIVISION, NMRA meets in the even months in the Oklahoma City area. All who are interested in Model railroading are welcome. Info: www.okcnmra.org

PLATTE VALLEY DIV. (HASTINGS, GRAND ISLAND, and KEARNEY, NE) meets 2nd Tuesday of each month at 7:00 p.m. in members' homes on a rotating basis. Info: John O'Neill, MMR, Div. Dir., 308-384-5011 or jponeill@computer-concepts.com.

TURKEY CREEK DIVISION, NMRA, Meetings are held on the fourth Tuesday of the month at 7 p.m. meetings(except for June) will be at the Shawnee Mission North High School at Johnson Drive and Metcalf in the Library. Check the Division Timetable at http://www.tc-nmra.org/TC-Calendar.html for current information. Info: Louis Seibel, Division Director 913-393-3495 or 913-927-6850 I-seibel@comcast.net

WESTERN HERITAGE DIVISION (OMAHA, NE / COUNCIL BLUFFS, IA) meets second Saturday (except June and December) at noon in the Sump Library at 2nd & Washington Streets in Papillion (across from Runza). Visit www.whdnmra.info for more info and a map. The new web site is found at http://www.whd.mcor-nmra.org

WESTERN KANSAS DIVISION (GARDEN CITY, KS) Meets every Tuesday evening from 6:30 P.M. to 9:00 P.M. at 4091/2 N. Main St. (second floor above "Stage" department store) 7 layouts on display (2-HO, 5-N) Operating sessions available Info: Robert Simmons, Division Director (620) 521-3591 or ras@odsgc.net

TRAIN SHOWS & MEETS

August 17th 2013,16th Annual Topeka Train

Festival Great Overland Station, 701 N. Kansas Ave., Topeka, KS, Saturday 9:30 to 4:30. For more information,

Visit www.greatoverlandstation.com

August 18th Mid-American Train & Toy Show,

KCI Expo Center, 11728 NW Abassasor Drive , Kansas City, Mo, 9am to 2pm \$5 adults,12 & under free with adult admission. 7 am early adimmission \$10. For more information, contact Steve and Sheri Stitch 913-651-5864

August 30-September 2 2013 Midland Railway Historical Association, At the Throttle w/ Flagg Coal #75

Midland Railway Address is 1515 W. High Street Baldwin City, KS 66006-0005Take the reins of the "Iron Horse"! Cost is \$150.00. At the Throttle will be at the Midland Railway for Railfest!!! You can power down the tracks behind the Flagg Coal #75.No previous locomotive experience is required. The program is a unique opportunity for rail fans to live their dream of running a

steam engine, taking a trip back in time to the golden age of railroading. A qualified engineer will be in the cab at all times, but participants will enjoy a full half hour operating the engine (including a safety orientation). Participants must be at least 18 years old with a valid driver's license. Release forms are required. Clothing appropriate to a working rail yard should be worn at all times. Jeans or overalls, work style boots (NO OPEN SHOES or Tennis Shoes), long sleeved shirt, and gloves are REQUIRED! Failure to have proper listed attire will result in forfeiture of "At the Throttle" time. No refund or cost will be given if time is forfeited. Participants wishing to have their picture made should bring a camera. Friends or family or a member of the crew can take a photo of each "At the Throttle" participant. Tickets are available online at www.midlandrailway.org or at the ticket window the day of the event. (Ticket window opens at 9 am each day of event.)

AUGUST 31-SEPT 2, 2013 Midland Railway for Railfest: Take a ride behind a Steam Locomotive on a trip from Baldwin City to Norwood and back. Three different times to choose from all three days!! Steam trips leave the Midland Railway Depot at 1515 High Street at 9:30am, 12pm, and 3pm all three days. You can ride behind either MKT 142 or NYC 8255 (Diesel Locomotives) for a trip from Baldwin City to Ottawa Junction and back. Choose from two different Diesel trips all three days. Tour the "Kansas City Southern Railway Post Office Car" or take the trip one our cabooses just like the conductors used too!!! Diesel trips depart the Midland Railway Depot at 11am and 2pm all three days!! Try your hand "AT THE THROTTLE" of Flagg Coal #75! Are you a steam lover? Ever wanted to try your hand at running a steam locomotive? HERE IS YOUR CHANCE!!!! Ride on a restored motor car! Tickets for these rides are available the day of the event at the ticket window. Enjoy a Railroadiana tent with hundreds of items to look at and purchase! Vendors from all over the Midwest will be at the Midland Railway all three days under the big tent with hundreds of Railroad memorabilia items to purchase and see! Also Kansas Operation Lifesaver will be handing out railroad safety information Admission is free with the purchase of any train ride ticket (Saturday, Sunday or Monday tickets) or a "combo pass". V&H Trucks will have a display of on track equipment along with model train layout, Day out with Thomas toys for sale and much more!! Food will be available on the grounds along with snacks and drinks. Also visit the gift shop in the depot for collectables and other gift ideas! Tickets are available online at www.midlandrailway.org or at the ticket window the day of the event. (Ticket window opens at 9 am each day of event.)

September 7th-8th 2013 Garden Railroad Tour: We Grow Trains in our Backyard September 7 & 8, 2013, The Kansas City Garden Railway Society will host our annual tour of 14 locations in the greater Kansas City area. We will be running and sharing the fun of trains. Tour books can be purchased for \$12.00 and allows the whole family to enjoy the great world of garden railroading. Fairy Gardens have become popular and we have combined trains and fairies for a unique prospective as this year's theme. Books can be purchased at the Great Plains Train Station located at the Great Mall of the Great Plains in Olathe, Ks. Books are also available at other locations around town. A complete list is on our website atwww.kcgrs.com.

THE SWITCH LIST

SECOND QUARTER 2013 By Louis Seibel

September 28th, Ozarks Model Train Swap Meet Howard Johnson Inn Conference Center 3333 S. Glenstone Ave., Springfield, MO 6645804 Doors open at 9am to 3pm \$6 adults, children under 12 free with paying adult. Operating display railroads, swap Tables door prizes. Table rental \$20 each Vendor setup Friday September 27 after 5. Food & refreshments will be available. For more information call David Brashers 417-848-1739 or email dbrashers69@yahoo.com. Vendor registration forms available on OMRA website. Greg Sullivan at 417-664-4208 or email at sullibud@gmail.com or web site http://omraspringfield.org

September 28th & 29 Wichita Toy Train Club and Museum's 19th Annual Train Show

and Swap Meet Times Saturday 9 to 5; Sunday 11 to 4, Location: Cessna Activity Center, 2744 George Washington Blvd., Wichita, KS 67210 Concessions are available on site. Admission: \$6.00 for both days. Children under 12 admitted free. After the Train Show/ Swap Meet, the public may tour the Wichita Toy Train Club and Museum for 50% off admission (\$2.50) with a hand stamp from the Train Show that weekend. For information, contact: Shari Shockey-

mshockey@hughes.net Jim Hickman-

iwhickman@att.net Check our website www.wttcinc.org

October 6th 30th Annual Train Show in Washington, lowa, KC Hall 606 West 3rd Street Hours 9am to 3pm, Admission- Adults-\$5, Kids 6-12-\$1 All gauges & railroadiana, Lunch available. Contactmeworley@iowatelecom.net or 319-653-3782

October 19th 4th Annual Silver Rails Model Train Show. The American Passenger Rail

Heritage Foundation (APRHF), a non-profit 501c-3 organization, is hosting the show on Saturday 9 am to 3pm at the Silver Rails Event Center. The Silver Rails Event Center is located at 202 E. Moore Street in La Plata, Missouri.

We will have operating train layouts and lots of trains/ railroad memorabilia for sale. Vendor space is available for \$20.00 a table. Entry fee is \$3.00 per person at the door all proceeds from the entry fee go to benefit the local food bank. Children 12 and under are free with an adult. Breakfast and lunch will available on site. For more information please contact Bob Cox 660-287-1714 or by email president@aprhf.org For more information call Bob Cox, President of the APRHF at 660-287-1714, or by email: president@aprhf.org For more info about the APRHF please visit: www.aprhf.org & http://www.aprhf.org/2013/03/19/silver-rails-model-train -show-october-19th-2013/

October 19-20 2013, The Great Train Plains Train Show Saturday 10 to 5 and Sunday 10 -4 The Great Mall of the Great Plains, 20700 W 151st Street, Olathe, Ks 66061 Adults \$7 under 16 Free \$2 off with coupon on web site Vendor, Manufactures Exhibits, Vendors, and Model Railroad Layouts. For more information Contact John Roberts at 913-406-3400 and Website

www.greatplainstrainshow.com

October 19-20, 2013 -Western Kansas Train Show 6th Year of Show Saturday 9:00 to 5:00 Sunday 11:00 to 4:00 Buy and sell new and used model trains 100 tables of trains for sale plus large operating layout, food vendor on sight and door prizes!!!! Adults \$5 Admissions 12 and under free! Ellis Country Fairgrounds 1343 Fairground Rd. Exit 157 on I-70 Hays, Kansas 67601

Vendors tables \$30 each. More information Contact Kevin Keeler Phone: 417-838-95615 Email: KLK@mchsi.com www.k-n-d-collectibles.com www.ozarkexpreehobbies.com

November 23rd & 24th The 2013 Boot Hill Model Railroad Club Train Show in Dodge City, KS, at The Western State Bank Expo Center, 11333 HWY 283 South, Dodge City, KS, 67801. This is located just SW of the intersection of HWY 283 and 56 on the South side of town. Show times are 10am to 6pm on Now 23rd and 11am to 4pm on Nov 24th. Admission is \$5.00 each with children 10 and under Free when accompanied by an adult. There will be several Vendors at the show. Tables are \$15.00 each. Please register your need for number of tables by SEPTEM-BER 30th, if at all possible, to reserve floor plan space. Other Model Train Clubs are invited to be a part of our show, and usually do, from Garden City, McPherson, Bennington, KS, North Platte, NE. Woodward, OK., and of course, Dodge City. We do not have a web address. I am the contact for the show: Don Delzeit 2415 Howell Ave, Dodge City, Ks, 67801. Phone 620 338 7139. My email address is ddelzeit@dodgecity.net. If I am unavailable, call Henry Turner Phone 620 271

November 30, December 1, 2013: The Great Train Expo. Gateway Center is located at One Gateway Drive, Collinsville, IL. Show times are 10 to 4both days. GTE is a national, traveling show that caters to the model railroad enthusiast. The show features 200-500 tables of train dealers, who offer everything from HO Scale, N Scale, Lionel (O Gauge), G Gauge, Z Scale, American Flyer (S Gauge), hobby tools, die-cast vehicles, train whistles, scenery items, Railroadiania Slides, t-shirts, videos, railroad gift items, books, photos and much, MUCH MORE! Free Workshops for Beginners & Experienced Modelers! Ask Questions & Take Notes... Talk With Model Railroading Experts! The show offers a variety of operating model railroad and toy layouts for the entire family to enjoy in many different scales and gauges. Check them out and get some great ideas for your own layout! If you're interested in joining a local model railroading club, the Great Train Expo is a great place to visit some of the different clubs in your area and learn more about them. If you're looking to sell an old toy train, this is the perfect place. You can get appraisals and offers from multiple dealers under the same roof! If you're looking to sell an old toy train, this is the perfect place. You can get appraisals and offers from multiple dealers under the same roof! For more information go to web site www.GreatTrainShowExpo.com

November 30th,2013 The Joplin Museum Complex will host a model train show and swap meet on Saturday, November 30th from 9:00am to 3pm. Admission is \$3 adult, children 12 and under admitted free with paid adult. Included will be operating layouts and over 70 tables of items for sale or trade. The Joplin Museum Complex is located at 7th and Schifferdecker Streets in Schifferdecker Park between the golf course and swimming pool. All proceeds at the door go to benefit the Joplin Museum Complex. For additional information please contact Rick Gardner phone 417-673-4888 or email rickgardner4449@gmail.com.

December 1 & 2, 8 &9, 2012 The Santa Claus Express is pulling into the Midland Railway again this year!! Address is 1515 W. High Street Baldwin City, KS 66006-0005 Trains depart at 10 am, 1pm and 3pm every day. Enjoy Christmas music, Carolers singing your favorite Christmas songs, a cookie and hot cocoa! Santa will be on the train in his own specially decorated car! Bring your cameras and take photographs with Santa Claus! Each child receives a small gift or candy cane from Santa! Tickets are available ONLINE at www.midlandrailway.org or at the ticket window the day of the event. (Ticket window opens at 9 am each day of event.) Tickets are \$15 for ages 12 and up; \$8 for ages 1 to 11*Please dress warm. Train has limited heat and you will be walking through the cars to meet Santa. Blankets, coats and tons of smiles encouraged!!

December 28-29, 2013: The Great Train Expo Overland Park International Trade Center 6800 W 115th Street, Overland Park, KS. Show times are10 to 4both days. GTE is a national, traveling show that caters to the model railroad enthusiast. The show features 200-500 tables of train dealers, who offer everything from HO Scale, N Scale, Lionel (O Gauge), G Gauge, Z Scale, American Flyer (S Gauge), hobby tools, die-cast vehicles, train whistles, scenery items, Railroadiania Slides, t-shirts, videos, railroad gift items, books, photos and much, MUCH MORE! Free Workshops for Beginners & Experienced Modelers! Ask Questions & Take Notes... Talk With Model Railroading Experts! The show offers a variety of operating model railroad and toy layouts for the entire family to enjoy in many different scales and gauges. Check them out and get some great ideas for your own layout! If you're interested in joining a local model railroading club, the Great Train Expo is a great place to visit some of the different clubs in your area and learn more about them. If you're looking to sell an old toy train, this is the perfect place. You can get appraisals and offers from multiple dealers under the same roof! If you're looking to sell an old toy train, this is the perfect place. You can get appraisals and offers from multiple dealers under the same roof! For more information go to web site

www.GreatTrainShowExpo.com

Saturday, March 15, 2014 36th Annual Ozarks Model Train Show & Swap Meet Remington's 1655 W. Republic Road, Springfield, MO 65807 9 am to 3 pm \$7 adults, children under 12 free. A portion of the admission goes to Crosslines See a large array of display layouts featuring a variety of scales, door prizes, food/ refreshments throughout the show. Planned activities include kids can ride the Kiddie Train, test their skills operating a train on a virtual railroad, take the throttle of an OMRA train, earn a Whistle Blowers certificate and compete in the LCCA's track laying contest in three age divisions. Bring your pre-1970 train for an appraisal or find out what it will take to make it run like new. Table rental \$25 each including lunch. Bottomless coffee all show for \$1. Vendors from the Fall Meet save 10%. Tables and special requests: Dave Brashers, dbrashers69@yahoo.com or 417-848-1739. Registration forms available on website: http://omraspringfield.org. Ron Williams MMR at 417-883-5350 or email at rwilliams3129@gmail.com

June 14-15, 2014 Memphis 2014 Rails Across the River: The Memphis Railroad and Trolley Museum and the Bluff City Division of the NMRA are proud to host the 2014 Joint Convention of the Southeastern Region and Mid Continent Region of the NMRA. The convention will be held at the Harding Academy, 1100 Cherry Rd, Memphis, TN 38117. For more information, registration and hotel information please visit the website http://www.ser-nmra.org

The Switch List is a service of Mid-Continent Region, NMRA.

Building a Drive-In Restaurant

By John Carty

My layout depicts the Illinois side of the St. Louis, Missouri area circa 1955. To this end I keep on the lookout for a variety of area businesses from that era. One such establishment brought to my attention bore the unlikely name of "Dodo Burger." Although this restaurant closed before I was born, I grabbed the chance to add an interesting vignette to the Daylines.

First, as I understand the restaurant operated as a drive-in hamburger joint, resembling, I suppose, Al's from "Happy Days." The place actually catered more successfully to families than teenagers. When it became a regular hang out for high school kids, the family portion of the business faltered, leading to the establishment emulating its namesake. In the year I model, 1955, however, Dodo Burger had yet to go extinct.

The first step in this project concerned a location for the business. To this end I picked a lot with an odd shape, which lent itself to a parking lot. The location chosen faces Main St. with tracks curving around one side and across the back. At the local hobby shop I found a Bob's Hotdog Stand kit produced by Model Power. This little gem provided the perfect start for the project and helped define the size of the base required.



I constructed the kit according to the instructions with a few modifications. First, I removed the mounting tabs for the inner walls and counter. Next, I added a floor of sheet styrene,

shortened one inner wall. and mounted them toward the rear corner near the back door to the kitchen. I also added a kitchen vent to the back wall. Lastly, I trimmed the extensions for all but one of the sign boards which mount to the roof. I sprayed the roof and back of the signboards grey, the walls almond, and the underside of the roof as well as the faces of the signboards white. Next I brushed red acrylic craft paint onto the trim, smoke jack, and kitchen vent. I sprayed the base of the

model white and painted the edges tan and the tops of the edges red. I washed the base, walls, and roof with black craft paint thinned with alcohol. I also dry brushed around the vents using

Photo 1: Completed model of the Dodo Burger Restaurant positioned on my Daylines layout. The streets themselves have yet to be installed.

black acrylic craft paint.

I used Microsoft Word to design and print decals for the sign boards. I applied these to the entire surface of the boards using the excess portions to provide a consistent color to the portion of the boards which remained unlettered. I cut a piece of styrene and applied the graphic sign to each side. I sprayed all surfaces with Testor's Dull Cote in order to seal the Decals and eliminate the shine of the gloss paint. A copy of the signs is provided below.

I cut a piece of 1/8" hardboard to the shape of the location and sprayed if gray in imitation of a concrete parking lot. Next, I located

the where the building would stand and marked the base accordingly. I determined the location of the parking spaces required and cut white Trim Film into strips measuring a scale three



Photo 2: Interior of the restaurant.

inches wide. These I applied using Champ Decalset. They broke up during the application, but fused back together with the application of the Decalset. I added pieces of sprue, measuring 0.010" in diameter, painted brown, as parking blocks to the two spaces needing them, which, according to my father who has memory for such details, were round logs in the 1950's. I affixed the sign to a piece of sixteenth inch diameter brass tubing painted red and inserted this sign into the hardboard parking lot.

A parking lot of this type requires light. I constructed three light poles from scratch using a modified version of the procedure outlined in the article "old Style Street Lights Made Easy and Cheap" which appeared in volume 49 #4.5 Fall 2008 SouthErneR. First I cut a piece of eighthinch brass tubing into pieces four inches long. I also cut a piece of sixteenth inch tubing two inches long. A quarter of an inch from one end I drilled a sixteenth inch hole in the side of the eighth inch piece of tubing as well as a #66 hole



a quarter inch below it. I also drilled a #66 hole in the sixteenth inch segment of tubing a quarter of an inch from the end. I soldered the piece of sixteenth inch tubing into the hole in the eighth inch tube with the hole in the smaller tube closest to the larger tube and facing the long end.

Then I cut one lead to a half inch length, stripping the wire to the bulb. Next I slid the longer wire down the 1/16" tube after gently bending the tube slightly at the #66 hole so as to

Photo 4: Front view of building before mounting on the base

pass the wire through the hole. I inserted the stripped lead into the hole when an equal length of the insulated wire remained. After straightening the smaller tube, I inserted the wire into the #66 hole in the larger tube and slid it down and out the longer end of the tube. I drilled the hole in a sequin with a 1/16" drill and slid a 1 ½ volt bulb through the hole, securing the sequin in place with Zap a Gap. I filled the top of the pole with wood putty.

After covering the bulb with a short length of tubing, I sprayed the entire assembly brown.





Photo 6: Base after being painted grey and with the first parking stripe added.



Photo 7: Completed model viewed from the west.

Next, I streaked a little black on the poles for creosote. I installed the three of these light fixtures onto the parking lot and then secured the building as well. I drilled a hold in the assembly inside the building and added an interior light. Finally, I added the figures and vehicles. Now, I think it is time for a burger.

Dodo Burger		Dodo Burger		
Malts	Ice Cream	Burgers	French Fries	
Malts	Ice Cream	Burgers	French Fries	
Dodo Burger	Dodo Burger		DECALS USED	

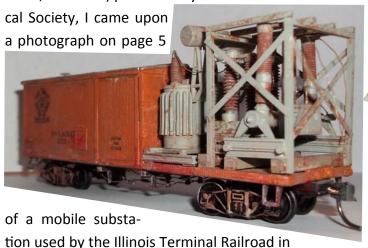




Building a Mobile Substation for the Day Lines

By John Carty

While reading a recent issue of the Flyer, (Volume 24, No. 2, Fall 2010) published by the Illinois Traction Histori-





the article "Jackson 'Jack' Majors, The Last Living IT Lineman." This car provided power to the overhead in order to keep trains running, while line crews conducted repairs to a substation or other power source. Since I model the East St. Louis & Suburban Railway System, another

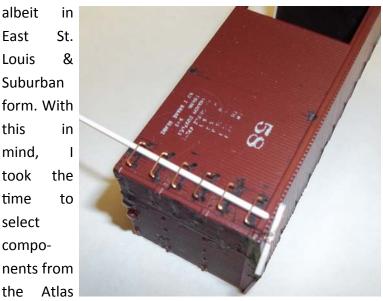


vides a unique piece of maintenance of way equipment to model. Succumbing to temptation, I decided to kit bash my own car patterned after the prototype whose photograph appeared in the magazine.



sion of the car in the magazine. The result is a composite design which captures the feel of the Illinois Terminal

albeit in St. East Louis Suburban form. With this mind. took the time to select components from



kit. I also sought to use as many of the components of each of the kits as possible.





bolts, and brake platform from the body. Next, I plugged the mounting holes for the doors, and later the roof walk. I then cut the body twenty-two scale feet

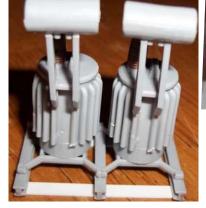
> "B" end, retaining a strip of the body at the bottom with which to cover the floor casting. I also cut and saved the "A" end, saving the buffers, leaving this end about 0.040" short. After squaring the cuts, I installed the "A" end in its new location adding a piece of 0.040" styrene to fill in at the bottom of the



strip

from the

square



of the roof using the same spacer. I cut two pieces of the unused portion of the body to fill the door holes and filed them to fit, again filling gaps with putty. I also covered the vertical seams with 0.010" x 0.060" (roughly a scale 1 x 6) strip styrene. I replaced the bolts in the ends of the body with Tichy 7" hex nut/

washer castings. Additionally, I added EMD louvers made by Cary on the sides and ends, and then framed them with .010" x 0.040" (roughly a scale 1 x 4)styrene. I also



added Tichy brake parts to the "B" end of the car along with a brake staff cut from 0.012" brass wire. Next, I made a new roof walk from 0.010" x 0.060" strip styrene. I also replaced the end roof walk support I accidently removed earlier.

Moving to the floor of the car, I started by dressing the floor casting with a

file. I also Current Selection

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end. To this assembly, I filled the gaps with Squadron

putty and dressed the seams. I also added to weather heads cut from 1/8" styrene tubing.

Next I drilled #79 holes and installed drop grab irons on the sides and "B" of the body, using a piece of 0.040" square styrene as a spacer. I also added to straight grab irons at the corner



RELIVING THE ATLANTIC COAST LINE

By Eugene Coffman

In May of this year we visited the Wilmington (NC) Railroad Museum. It is situated near the riverfront in an original 1883 freight house building of beautiful brick and timber construction. A matching freight house sits across the parking lot and is being rehabbed into a local convention center. Although an inland city, Wilmington is considered North Carolina's main seaport as it is connected to the sea by the Cape Fear River. The city became a rail hub early with the creation of the Wilmington & Raleigh Railroad in 1834 to connect the capital to the sea. The Wilmington and Weldon Railroad followed in 1840 to link the port to Virginia cities.

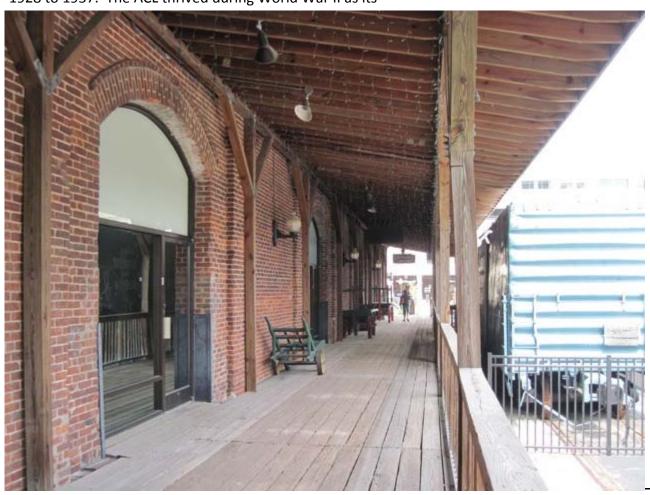
The phrase "Atlantic Coast Line" originated from an 1871 advertising campaign touting several seaboard RR's and their interconnections. Over time, ACL became the commonplace name of the RR and the independent roads were eventually merged into one in 1898 as the Atlantic Coast Line. Their "Southland" passenger train provided a more direct link from Chicago to Florida from 1928 to 1957. The ACL thrived during World War II as its

coastal routes proved a much safer alternative to coastal shipping then threatened by German submarines. The ACL operated with Wilmington as its headquarters until it became a "fallen flag" in 1958 with the merger to its larger competitor, the Seaboard Coast Line.

The full-size artifacts displayed outside are all clean and well preserved with the interiors easily accessible including the locomotive cab, boxcar, and caboose. The 1910 Baldwin 4-6-0 (ACL #250) has 69" drive wheels and weighed 150 tons fully loaded. It spent the last years of its long life in passenger service (Wilmington to Fayetteville) which ended in 1952.

The boxcar is the 50' RF&P 2379 (Richmond, Fredericksburg, and Potomac). A scene is staged inside of a rail cop "rousting" two hoboes. The immaculate ACL caboose has interior placards describing the use of equipment by the crew and life as it was in this original "mobile home". The wheel lathe out in front was used to "true up" #250's drive wheels and was dated 1892 when manufactured by the Swanscot Machine Co. of New Hampshire.

The museum interior begins in the History Hall





with extensive photo exhibits documenting the history of the ACL and its predecessors. Separate exhibits cover the Civil War years, the World War II era, African American employees, "RR Women" (employees), unionization, ACL Dining Car accounterments including china, silver, linens, menus, and other collectible items. In my opinion, these historical displays were interesting and very well done.







Next was the Children's Hall with exhibits of model RR hardware over time with a lot of tin plate and some "O" and "S" gauge. There are small, functioning layouts here of "O" and "G" gauges as well as tinplate. There is also a multi-level "Thomas"

layout which seemed to captivate kids for extended

periods.

But, for modelers, the museum saves the best for last with the largest museum layout in the Southeast! In the rearmost Model Hall is a huge fully functional 1500 sq. ft. HO layout with some N scale used in the backgrounds as forced perspective. It is highly detailed with city street lights, round house and turntable, stations, farms, and industries. Through an automated system driven by large push buttons, the layout is highly interactive. Visitors can start one passenger train out of a sta-



We visited this museum early one morning and expected to spend a maximum of two hours. Instead, we ended up eating a late lunch. Several locations were revisited and missed features noted. I can't imagine how this user-friendly location could be improved; we enjoyed our visit immensely.

tion and receive another, shunt cars in a port or yard area, and control industrial action. My favorite was sending loaded coal cars from a mine into the power plant; the cars re-emerge empty to return to the mine for another trip.



Visiting the Turkey Creek Division and other Model Railroads in the US by Kelly Loyd MMR Australasian Region Secretary

My fascination for trains began at an early age when our family lived 2 blocks from the St. Louis – San Francisco RR main line in the small town of St. James. My brother and I would race to the trackside when we heard a 'Frisco



freight blow for the crossing at the East end of town and watch as the Mandarin and White units thundered past the feed store with a freight in tow, a sight both exciting and terrifying for small boys. The love of trains grew out of these early boyhood experiences and also from being lucky enough to have a Grandfather who was a



railroader. He would take me to work with him at the interlocking tower where he was the 2nd trick operator



and I learned how to hang orders, use the radio and operate the interlocking. I was fully capable of operating the interlocking unsupervised at the tender age of 10, which surprised the Trainmaster one evening when he visited the tower and Grandpa said, "Kelly, line that KCS out of town." Such things remain etched upon the memory... 35 Normal, 37 Normal, 36 Right, 23 Normal, 21 Reverse and 24 Left.

A fellow Australian modeler noted at one time that there were three types of Model Railroaders in operations: - The Railfan, The Yardmaster and The Dispatcher. Railfans love to watch trains run, no switching. Yardmasters



enjoy running a train, but they enjoy lots of switching, both in the yard and with a Peddler Freight. Dispatchers really enjoy overseeing the operation and "running" the entire railroad. He went on to say that The Dispatcher is a rare type and he was surprised to meet one. I think it was



that exposure to interlocking and also CTC at other locations that sparked my interest in Dispatching, something that has lasted all my life.

Like so many others, I asked my parents for a train set for Christmas in 1968. I recall seeing it in the five and dime store for the princely sum of \$13. I set up that oval of



track in my room and soon grew tired of running round and round so the next summer, I got a job delivering newspapers and saved up enough for a turnout and some track. Looking back now, I realize that was the true beginning of my desire to operate a model railroad and not just run trains around without purpose. Of course, I didn't deliver products, but I did load up a gondola with chocolates and "delivered" those.

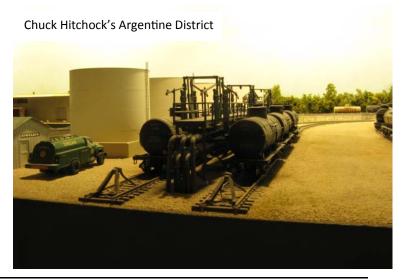
I got a permanent layout as a teenager, a 4x8 with an oval, industry spur and a small yard. This was a lot of fun and I wired it with blocks to have a mainline train and a yard switcher. There were no car cards but I still operated

by having the switcher make up a "delivery" to the spur track, push the train out onto the main, then park the yard switcher and have the main line locomotive come and hook on, then a couple of circuits of the oval followed by exchanging the cars. There weren't even any buildings on the layout, all done by imagination. After High School, I spent 2 years working for The Milwaukee Road in 1980, in the very same job that my Grandfather taught me. The love of railroading and model trains stayed with me through life and finally I was able to build another layout some 21 years later.

My friend Gerry Hopkins likes to say, "Kelly was not



going to have scenery, or operate or have signals. He was just having a plain plywood layout. He has failed to achieve those things." I started building my current layout in 2003 which began as an Atlas Track plan, but was expanded out via two "wings" into a nicely operating model railroad. In December 2003, I joined the NMRA in the Australasian Region and made a lot of new friends who shared my enthusiasm for model railroads. I decided







to tackle the Achievement Program and started out with Model Railroad Engineer – Electrical. Well, you have to lull in the weather until I completed the Motive Power in





wire your layout, so why not get credit for doing it? My background includes a lot of Electronics experience. Even so, I learned a few things from doing that certificate. Other AP certificates were to follow in time, then a

2012 to complete the seven required for Master Model Railroader. Getting a certificate was great, but even





greater was the friendships forged and lessons learned all along the way.

I'd have to say that the greatest asset and benefit in the NMRA is the members. Without exception, every place I have visited with NMRA members I have been made to feel very welcome and shared many good times, learning, chatting and operating. I've been fortunate to see and operate on some of the most amazing model railroads in the

suing an Electrical Engineering degree at Kansas State University. Kelly holds the following certificates: Model Railroad Engineer – Electrical, Chief Dispatcher, Model Railroad Engineer – Civil, Author, Association Volunteer, Master Builder – Scenery, Master Builder - Motive Power. Master Model Railroader #482





world, places like the North American Prototype Modelers in Milwaukee, Mike Richtsdorf's Norfolk and Western in Chicago, Gary Hankin's Santa Fe, Chuck Hitchcock's Argentine District and Bruce Chubb's Sunset Valley Oregon System. Then of course there is our own grass roots group, local modelers who share fun, operations, learning and general camaraderie. This social aspect is one of the best things about our organization to me and something I would like to see continue for years to come.



Kelly is employed as a Senior Software Engineer at Civica Pty Limited, a Software Vendor providing an Enterprise Suite of applications for Local Government. His interests include books, movies, good music, model railroads, prototype railroads, writing software and anything to do with his layout. Kelly has been married to his lovely wife Gianna for 31 years and has one son, who is pur-

Web: http://www.kansascitysub.info/
eMail: kelly.loyd@internode.on.net



Silver Rails Model Train Show



The American Passenger Rail Heritage Foundation (APRHF), a non-profit 501c-3 organization, is hosting the 4th annual Silver Rails Model Train Show on Saturday, October 19th, from 9 am to 3pm at the Silver Rails Event Center. The Silver Rails Event Center is located at 202 E. Moore Street in La Plata, Missouri.

We will have operating train layouts and lots of trains/railroad memorabilia for sale. Vendor space is available for \$20.00 a table.

Entry fee is \$3.00 per person at the door all proceeds from the entry fee go to benefit the local food bank. Children 12 and under are free with an adult.

Breakfast and lunch will available on site.

For more information please contact Bob Cox 660-287-1714 or by email president@aprhf.org



Set up times will be Friday Night 6pm to 10pm and Saturday morning 7am to 8:30am.

Building St. Clair Ice Kit-Bashing a Winner By John Carty

In building a layout without incurring the ire of my better half, I have learned to be an opportunist when it comes to minimizing costs. To this end, when the subject of DPM Scratch Building Contest was announced, I saw an opportunity to construct a business on my list. The HO

The first of the f

scale ABC Cab Co. kit lent itself directly to being transformed into the local ice producer I desired for my layout. The prototype building stands at the corner of 6th and Main Streets in Belleville, Illinois. FKG Oil currently occupies the premises using the building which predecessor Peabody Coal had extensively modified. A key feature of the structure consists of retaining walls which surrounded the brine tanks and now do the same for the parking lot. Since St. Clair Ice supplied ice for air conditioning systems and retail, no dock or vestiges of the dock remained. No storage building appears to have existed, suggesting that the company stored the ice underground in the limestone caves, which, together with coal mines, dominate the substrata of Belleville. When I received the materials for the contest, the kit along with two additional walls (one singlestory, the other twostory) and some white metal castings, I photographed the property. Next I made a cardboard template of the foot print of the location for the business on my layout. I also looked up how to make ice using brine on the internet. From this I learned that not only is salt required, but also ammonia. I found the remains of a coal bunker during my survey of the property behind the west wing. I also decided to add a rail siding, so that I could ice refers

for the nearby brewery. Since beer refers lack bunkers, because the ice is deposited directly on the barrels, the company still required no platform.

First I laid out the available components on by foot print. I decided to build the two story section of the kit per the instructions. To this I decided to add a shipping wing on the east side and a machinery wing on the west side, imitating the prototype layout of the building. The shipping wing required and angled wall on the north (back) side

to clear the siding. I chose the pieces for each wall of the wings carefully to minimize cuts and to take advantage of the molded ends. The angle required for the shipping wing matched the angle cast in the walls to allow easy removal from the molds. I aligned the roll up doors on the front and back walls of the shipping



wing. From the leftover

parts not needed for the walls, I laid out the retaining walls for the pit which would hold the brine tanks. I used the tops of the unused wall pieces to take advantage of



the molded parapet.

I started by sanding all pieces per the

with the brickwork facing into the pit. I added the louvered vent (metal casting) along with a coal bin consisting of short brick wall pieces topped with the doors made out of piece of roll up door removed earlier. I also added a projection to the front of the shipping wing to

instructions with the exception of the east wall of the shipping wing. Next, I assembled the office section per the instructions in the kit. I now

carefully cut the walls to fit the required configuration. I trimmed the extra two story wall to serve as the west wall of the machinery wing allowing a little extra to match the depth of the retaining wall, which

would extend toward the street in front. I also added risers to the south wall of the machinery wing as well as the corner of the office. I cut away most of the rear (north) shipping door in order to model it open. After assembling the two wings, I measured and cut the retaining

walls for the brine tanks. These were assembled



brick

detailed edge)



represent the exposed portion of the underground storage cave. I constructed the Current Selection about: blank 7/1/2013 chimney using pieces of wall cut from between the windows with a base fabricated from the left over retaining wall material. I added a cap to the chimney from strip styrene. I used the furnished roofing material to make the roofs and slabs, adding the vent to the office roof. The parts sprue with strip styrene added became the

HO Scale Ground Electrical Transformer

An often over-looked scenery item

By Kevin R. Salvo, GySgt USMC Retired, Life

member NMRA

When I started to detail the power lines and buildings of my layout, I very quickly ran out of electrical transformers for the power poles. I started making them myself and discovered that they took a long time to make. I also had a rejection rate of over 50%.

I looked around for something else to use that matched real life. That is when I noticed ground electrical transformers which are basically a box on a concrete pad. They come in different sizes depending on the electrical demands of the building connected. The shape was the same on all that I found – a box with little details that changed with size and manufacturer. A benefit of using these is no power lines showing from the poles to the unit or from the unit to the building being serviced. I was surprised to note that the installation of the units appeared to be based on ease of access with the distances from pole or building that varied wildly. I have found only two colors – gray and green.

The unit at the local nursing home was medium sized and simple construction. They allowed me to measure it, but would not allow me to take pictures of it citing HOMELAND SECURITY rules. I noted the construction and details and when I got home I made rough drawings of it. Next door to my home is the Deshler City Fire Department fire hall which has a unit as well; but was bigger and had different details (more complicated parts). That one I could photograph from my property.



City of Deshler Fire Department Ground Transformer

I chose to model the unit from the local nursing home due to the simple construction. I used left-over parts from Grandt Line relay houses (lift rings), decals from Microscale Diesel Dim Data sheets (5 danger decals), and the plastic spreader piece from Woodland Scenic Paving Tape.

For the ends, sides, and top, I figured out the sizes needed based on the thickness of the plastic to end up with a cabinet that matched the real unit. I was able to make these units in half the time of the pole transformers and I had zero rejects.

Stats for ground transformer: cabinet = L-4'6'' W- 3' H-4', footprint = L-5'6'' W- 4'

Parts list: Lift rings from Grandt Line Relay Cabinets – 4 each.

Decals from Microscale Diesel Dim Data sheet -1 "Danger @#\$%^&*" (@#\$%^&* is very small print in two lines on some sheets that is unreadable) and 4 "Danger High Voltage" in either red or yellow (I have seen each color used on the prototypes).

The following parts are made from the plastic in the Woodland Scenics Paving Tape:

Note: measurements are based on thickness of plastic; adjust them if using a different plastic source.

Ends = 2 each - 3'X3'6''

Sides = $2 \operatorname{each} - 3'6''X3'6''$

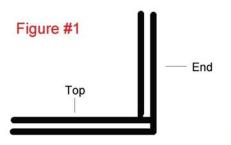
Top = 1 each - 4'6"X3'

Handle = 1 each – short sliver of plastic

Base = 1 each -5'6''X4'

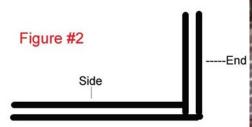
Instructions:

- 1. Paint the base a concrete color.
- 2. Glue 3' side of an end piece to the 3' side of the top piece (see figure #1).



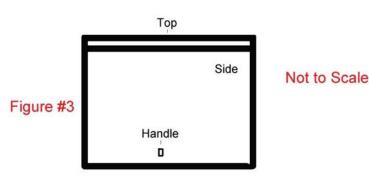
Not to Scale

3. Glue both side pieces to the end and top assembly (see figure #2).

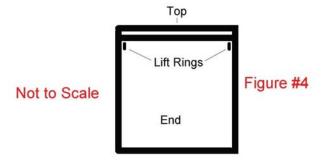


Not to Scale

- 4. Glue last end piece to sides and top.
- 5. Glue handle centered near the bottom of one side (see figure #3).



Drill two #73 holes near the top outside corners of each end; glue a lift ring in each hole (see figure #4).



- 7. Paint the completed cabinet a light green (or gray) for an older cabinet or dark green (or gray) for a newer cabinet.
- 8. Place "Danger @#\$%^&*" decal centered just above the handle.
- 9. Place "Danger High Voltage" decal centered near the top of all four sides.

- 10. Mount the base on layout in desired position; scenic around the base.
- 11. Glue cabinet centered in all directions on the base (I have noted that a few units are not perfectly centered).

Stand back and admire your work.



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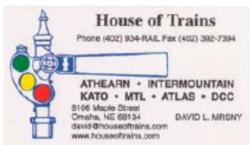
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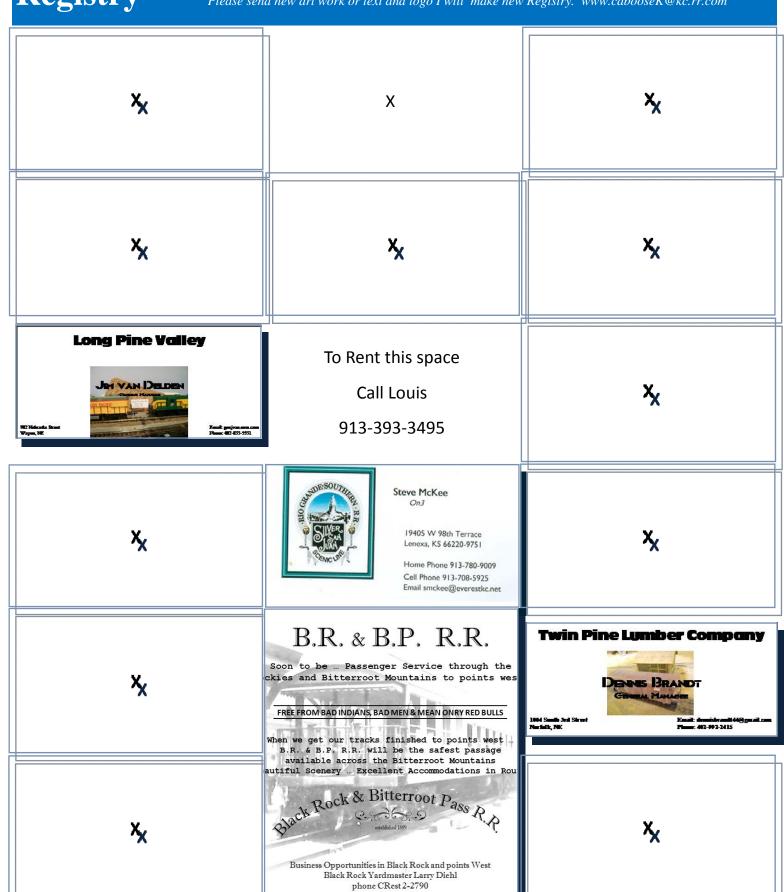
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