

OFFICIAL TIMETABLE

No. 80



PORTLAND DAYLIGHT EXPRESS

NMRA NATIONAL CONVENTION



**Hosted by:
Columbia Gorge
Model Railroad Club
and
2nd Division,
Pacific Northwest Region,
National Model Railroad
Association.**

**Effective August 23 - 29, 2015
Portland, Oregon**

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Welcome First-time attendees at National Conventions.

We recommend the clinics by Jack Hamilton on Sunday afternoon and Monday morning. They will help explain many facets of the event, and what to expect.

Please ask questions. We want you to feel welcome here, and to return for future conventions and other NMRA events.

Information in this timetable is as complete and accurate as possible at the date we closed for printing.

Final close off date was: July 24, 2015

Changes will be posted daily outside the Convention Office, and on the PDX 2015 website and mobile site.

Welcome to Portland and the Portland Daylight Express 2015 NMRA National Convention

The Columbia Gorge Model Railroad Club welcomes you to Portland and thanks you for joining us at this, the National Model Railroad Association's 2015 convention. Over several years our committee has worked hard to present this full week of model railroading, prototype activities, special events and general interest tours and clinics, auction, contests.

We hope you enjoy the time you spend with us!

Facility Map

A map of the convention facility, showing the locations of clinic and other activity rooms, can be found on page 102 of this Timetable. Note, all of our planned indoor activities are at the DoubleTree Hotel.

Daily Updates

Make sure to check for schedule updates. They will be posted on the Daily Update/Message Board located adjacent to the Tour Desk in the Exhibit Hall, and outside the Convention Office in the Morrison Room.

Portland Daylight Express Convention Staff will be wearing **orange** shirts. Our volunteers wear **maroon** shirts. If you have a question, don't hesitate to ask it - seek us out. We will assist you or find the resource to assist you. We are here to make certain YOU are having a great convention experience.

Volunteers are always needed during the convention. If you would like to volunteer, please check in at the Volunteer Desk in the Morrison Ballroom.

Tour/Event Numbers

Each event has been assigned a unique 4-character number:

C= Extra-fare clinic; F= Food Event;

G= General Interest Tour; L= Layout Tour; P= Prototype Tour
1st digit: the day of the tour (1= Sunday, 2= Monday, etc.)

2nd and 3rd digits: the tour/event number.

A Letter "A" or "B" after the tour number may denote multiple coaches on a given tour.

Your tour ticket has the day and time of departure printed on it. Please check at the Tour Desk for last minute changes.

Name Badges

Please wear your convention name badge, visible to your front, at all times at convention activities. Your badge is part of our security. People without a badge will be asked to leave.

If you lose your badge, please see NMRA Registration in the Halsey Ballroom, with id, for replacement.

Lost and Found

If you find items that may have been mislaid by our fellow conventioners, please take them to the Convention Office.

If you have lost something, within the convention facility, report it to the Convention Office in the Morrison Ballroom.

If it is handed in we will advise you that we have it.

Behavior

Conventioners are expecting to enjoy the event, respecting our fellow participants.

The Convention Committee reserves the right to eject people from tours and the convention if their behavior represents conduct that is objectionable to other Convention participants. If you are ejected from a tour, you are solely responsible for transportation back to your lodging.

Portland Daylight Express 2015

Convention Team:

General Chair	Doug Auburg
Registration / Layout Tours	Steven Watkins
Outside Co-Chair	Isaac Harpole
Inside Co-Chair / Volunteers	Gene Nedrow
Non Rail / General Tours	Suzy Madsen
Secretary / Registration	Tammy Auburg
Treasurer	Paul Nasiatka
Clinics Chair	Charlie Comstock
Webmaster	Greg Madsen
Prototype / General Tours	Doug Auburg
Auction Chair	Rolland Rodway
Publicity / Timetable / Auction	Paul Hobbs
Company Store	Keith Ansell
Company Store	Ursula Ansell
SIG Coordinator	Bill Decker
Volunteer Coordinator	Jack Hamilton, MMR
Registration Support	Linda Nedrow
Clinics	Ed Foley
Clinics A/V	Jeff Shultz
Timetable Advertising	Todd Gillette
Company Store / Non-Rail	Kristy Webster
Door Prizes	Jim Whaley, MMR
Accessibility Consultant	Alex Brikoff

National Model Railroad Association

Meetings and Trade Show Department Staff

Department Manager	Robert Amsler
Convention Manager	Ray deBlieck
Assistant Convention Manager	Ed Slintak
National Train Show Manager	Mark Shafer



NMRA Board of Directors

AL North American Director	Allen Pollock, HLM, DSA
AL North American Director	Peter Youngblood, MMR (Elect)
AL World Wide Director	Mike Brestel, HLM
Atlantic Director	Kathy Millatt, MMR
Canada Director	Fred Headon, MMR
Central Director	Peter Magoun, MMR
Eastern Director	Joe Gelmini, MMR
Pacific Director	Mike Bartlett
Regional Advisory Council	Steven August
Western Director	Jack Hamilton, MMR

Officers of the NMRA

President	Charlie W. Getz IV, HLM
Vice President - Admin	Dave Thornton
Vice President - Admin	Clark Kooning MMR, HLM (Elect)
Vice President - Projects	Gerry Leone, MMR, HLM
Secretary	John Stevens
Treasurer/CFO	Frank Koch, HLM
NMRA Canada President	Clark Kooning, MMR

NMRA Department Heads

Administrative	Jenny Hendricks
Education	Bruce De Young
Development/Fund Raising	Alan Anderson
Howell Day Museum	Allen Pollock, HLM, DSA
Information Technology	Ben Sevier
Marketing	Page Martin
Meetings and Trade Show	Bob Amsler
Publications	Don Phillips
Standards and Conformance	Didrik A. Voss, MMR

Chairman's Welcome

On behalf of the many people who have put in unnumbered hours of effort to bring the Portland Daylight Express (PDX) Convention to fruition, and on behalf of the members of the Columbia Gorge Model Railroad Club, Pacific Northwest Region, and the people of the great Pacific Northwest, allow me to extend a hearty welcome to all registrants at the 80th Annual National Model Railroad Association Convention.

I speak for all of these people in making the wish that your stay in Portland, and your participation in the Portland Daylight Express activities will be enjoyable. Much effort was put into assembling a program that should be of interest to both modelers and their families. In addition we've assembled well over a hundred of the finest clinics and dozens of tours for all interests.

We, the PDX 2015 Convention staff, will do everything we can to make your stay a pleasurable and unforgettable experience. Please don't hesitate to contact me, or any of the PDX staff if a problem is encountered. But we ask that you also keep in mind that we're trying our best to serve everyone of the thousands of registrants and we may need a little time to meet your needs.

Doug Auburg

General Chairman

Events, activities and timings at this convention follow proven techniques learned from many previous conventions. Regular attendees expect this familiar environment.

If you wish to understand the processes, please ask a member of our team.

Innovations are ongoing. This year we are pre-registering auction items online, pioneered at Cleveland last year.

Cleveland pioneered use of the Guidebook cell-phone app. Our webmaster has developed a mobile website with similar utility.

We promoted PDX 2015 as part of a family vacation in the Pacific Northwest, achieving record early companion registrations and record early uptake of hotel-room-nights.

A first in 2015 is identifying accessibility of layouts on tours, and making that information available, so people can make informed tour choices.

2015 AUGUST						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

NMRA President's Welcome

Dear Fellow Conventioneer,

As NMRA President, I want to welcome you to the National Model Railroad Association's annual convention.

One of the great benefits of membership is attending the National Convention. Your week will be filled with a wide variety of activities emphasizing the learning opportunities for both new and experienced modelers. Outside of the hotel and meeting rooms, throughout the Portland area, there are numerous sites and events to explore which will make your visit one that you, your family, and your friends will remember for a long time. And we have been assured of a week of sunshine!

For those of you attending your first NMRA National Convention, this is a perfect opportunity to meet new friends, learn much more about all aspects of Model Railroading and see what our wonderful hobby is all about. For those returning as National Convention veterans, please be on the lookout for first-time attendees and let them know how pleased we are to have them join us.

Considering the number of high-quality model railroads in the Portland area, the number of Prototype rail and non-rail sites and the extensive program of clinics, contests, and events within the convention facilities, there is not enough time in one week to see and do everything. And do not forget the General Membership event. Adding the National Train Show for the weekend and there may not be time to sleep!

Thanks to all in the PNR and our own Meetings and Trade Show department who worked so hard and long to host and organize this convention. The convention has been in the works for five years and everyone's goal has been to provide the best experience the area and the NMRA has to offer. Please be sure to let our hosts know how much you appreciate their efforts when you see them working the convention over the next few days. I, too, look forward to seeing you this week, so please stop and say hello.

Charlie Getz

President
National Model Railroad Association

First-time attendees may not be familiar with abbreviations frequently seen in this and other convention materials.

DC	Direct Current
DCC	Digital Command Control
DSA	Distinguished Service Award
Freelance	Modeling other than strict prototype
HLM	Honorary Life Member
LCB	Local Control Bus
LCC	Layout Command Control
MMR	Master Model Railroader
MWTM	Modeling with the Masters
Prototype	Real Railroad
RPM	Railroad Prototype Modelers
SIG	Special Interest Group



KATE BROWN
Governor

August 23, 2015

Dear Attendees of the 2015 National Model Railroad Association Convention:

Welcome to the great state of Oregon.

Thank you for bringing your enthusiasm for model trains and interest in Oregon's rail systems to Portland.

I hope your time in our scenic and majestic state provides you with ample opportunity to network with friends and fellow enthusiasts from around the world.

While you are here, I encourage you to take advantage of the location and explore Oregon. From the Pacific coast to the stunning Willamette Valley and the Columbia River Gorge, our local businesses and awe-inspiring views will leave you wanting more.

I hope your conference is a success, inspiring new ideas and interpersonal connections that support your interests and work.

Sincerely,

Governor Kate Brown
KB/sb

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(503) 378-8970
WWW.GOVERNOR.OREGON.GOV**



Office of Mayor Charlie Hales
City of Portland

March 16, 2015

Welcome!

It is my pleasure to welcome the members of the National Model Railroad Association to the City of Portland for the 2015 National Convention, held August 23 – 30, 2015.

I hope that our guests, in addition to exploring new ways to be successful as a community, will also take some time to explore the Portland metropolitan region. As Portlanders, we are extremely proud of what our city has to offer both residents and visitors. It is a place of outstanding natural beauty, fascinating and unique culture, a national destination for northwest-inspired culinary experiences and strong commercial activities accessible by our nationally renowned transportation system. Portland's history has been closely tied to railroads, so we think you will find much of interest here, and in the Pacific Northwest.

No matter what activities you choose to pursue during your stay, you'll find the people of Portland ready to help make your visit as enjoyable as possible. Best wishes for a successful convention and a wonderful visit to our fine city!

Sincerely,

Charlie Hales
Mayor

1221 SW Fourth Avenue, Suite 340 ♦
Portland, Oregon 97204
MayorCharlieHales@PortlandOregon.gov

Silent Auction

This convention's silent auction will be held in the **Exhibit Hall** and hosted by the Columbia Gorge Model Railroad Club.

Buy-it-Now

We will have a "Buy it Now" table for items that the Seller wants to sell at their price. The table will have separate tickets and will be handled by a cashier who will accept cash or credit cards (Visa, MasterCard, and Discover).

If you have small or low cost items package them to be sold using the below parameters (No \$1.00 packages).

Silent Auction

All participants

If you wish to sell or bid on items, see a member of the auction committee to verify that your convention ID is in the auction system.

NTS participants need to get a bidding number from the Auction office. If you are busy at the show on Thursday, you can leave credit card details, we process the sale, and deliver to the Expo Center on Friday.

Selling Items

Many of you will have pre-registered your items using the auction app. If so, bring your items to our entry desk and we print bid cards for all items presented.

If you did not pre-register, please make a list of item descriptions [maximum 36 characters per item] (to appear on the bid card) and the minimum bid so we can process your requirements quickly.

Our staff can assist with pricing strategies if needed.

The auction committee accepts items for the traditional silent auction with a minimum **Starting bid of \$10.00** and incremental bids of dollar amounts. If you have small or low cost items package them accordingly.

Settlement begins on Thursday August 27.

Bidding on Items

Place your bid and convention ID on a bid card that lists a description of the item and the previous bid. The minimum starting bid is \$10.00 with incremental bids of \$1.00. The winning bidder is the last one on the bid card. Settlement begins on Thursday August 27. The auction committee accepts cash or credit cards (Visa, MasterCard, and Discover).

Settling up

At the close of the auction on Wednesday evening the room is closed for processing.

Winning registration numbers will be posted outside the room.

When the room reopens buyers pay for purchases, and take away your new treasures.

Please ensure you can be at the auction room to collect your purchases, arrange a proxy, or leave us credit card details for us to complete the transaction on your behalf; you pick up your purchases Friday afternoon.

Sellers will be paid out, less commission, following the buyer session. Selling and buying are separate transactions.

Auction Schedule

Sunday, August 23

1:00 p.m. – 6:00 p.m. Drop off auction items

Monday, August 24

9:00 a.m. – 12:00 noon	Drop off auction items
9:00 a.m. – 12:00 noon	Auction open for Bidding
1:00 p.m. – 5:00 p.m.	Drop off auction items
1:00 p.m. – 5:00 p.m.	Auction open for Bidding
6:00 p.m. – 9:00 p.m.	Drop off auction items
6:00 p.m. – 9:00 p.m.	Auction open for Bidding

Tuesday, August 25

9:00 a.m. – 12:00 noon	Drop off auction items
9:00 a.m. – 12:00 noon	Auction open for Bidding
1:00 p.m. – 5:00 p.m.	Drop off auction items*
	* or earlier if tables are filled
1:00 p.m. – 5:00 p.m.	Auction open for Bidding
6:00 p.m. – 9:00 p.m.	Auction open for Bidding

Wednesday, August 26

9:00 a.m. – 12:00 noon	Auction open for Bidding
1:00 p.m. – 7:00 p.m.	Auction open for Bidding
7:00 p.m.	Auction Closes

Thursday, August 27

9:00 a.m. – 12:00 noon	Auction Settlement Purchasers
1:00 p.m. – 5:00 p.m.	Settlement continues Purchasers
6:00 p.m. – 9:00 p.m.	Settlement continues Purchasers
9:00 p.m.	Unsold items returned to seller

Friday, August 28

1:00 p.m. – 5:00 p.m.	Settlement Sellers
-----------------------	--------------------

All items left after 5:00 p.m. Friday, August 28, become the property of the Columbia Gorge Model Railroad Club unless prior arrangements are made.

**The tote bags furnished to
convention attendees are provided
by these generous sponsors:**

Bachmann Industries:	www.bachmanntrains.com
Athearn:	www.athearn.com
Fox Valley Models:	www.foxvalleymodels.com
White River Productions:	www.whiteriverproductions.com
Daylight Sales:	www.daylightsales.com
Oregon Rail Heritage Center:	www.orhf.org



A Celebration of Models, Photos & Crafts

Contests and Displays in the Multnomah Ballroom

While the Model Contest is typically considered the prime event, excellent Photo and Arts & Crafts Contests and a Rail Pass Contest are also included.

For descriptive information and required forms, go to nmra.org/contests.

Eligibility and Entry

All NMRA members are eligible to enter any of the events in accordance with the applicable rules of the contest with the exception of the arts & crafts contest, which is open to all convention registrants, NMRA members or not. Entries must be brought to this location and presented to the contest staff along with the required forms. Once the entry is accepted, it will not be available for pick-up until the scheduled time. The schedule for these events is shown below:

Contest Schedule

Entry/Viewing - Monday & Tuesday 8:00 a.m. - 6:00 p.m.

Judge's Clinic - Monday - 2:30 p.m. - 3:30 p.m. Weidler Room
Bob Hamm, MMR, gives a clinic on judging contest models for 2015 contest judges and anyone else interested in contest judging. The clinic is mandatory for new judges at this year's model contest.

Viewing Only - Wednesday and Thursday 8:00 a.m. - 4:00 p.m.

Voting for People's Choice Awards -

Tuesday 8:00 a.m. - 6:00 p.m., and Wednesday to noon.

Afternoon of "Meet the Modeler, Photographer & Crafter"
Tuesday 1:00 p.m. - 6:00 p.m.

Judging - Wednesday 8:00 a.m. - 4:00 p.m.

Contest room is *open for viewing during judging; however, please no talking.*

Score Review Period - Thursday 9:00 a.m. - 11:00 a.m.

Model, Photo & Crafts Contest Awards Ceremony -

Thursday 2:00 p.m. (check room posting)

Award Photos -

Thursday 4:00 p.m. - 9:00 p.m. (CLOSED SESSION)

Entry Pickup - Friday 8:00 a.m. - Noon

Module contest

The Module Contest will be held at the National Train Show. Space for module entries must be secured ahead of the train show by contacting the Train Show staff. If space is not available, entrants may contact the Contest Staff to see if an alternate space is available.

Entry forms may be dropped off at the Celebration (Contest) Room [Multnomah Ballroom] or attached to the front of the modules when setting up at the Train Show. The schedule of events is shown below:

1. Module Entry at Contest Room (FORMS SUBMITTAL ONLY) - Monday 8:00 a.m. - Wednesday 12:00 noon.

2. Module Set-up and Entry at Train Show - Thursday, *Forms must be attached to front of module by Thursday 3:00 p.m.*

3. Module Viewing - Friday, Saturday and Sunday during National Train Show
4. Judging - Friday, 9:00a.m. - 12:00 noon
5. Module Contest Awards - Friday, 3:00 p.m. (typically). Exact time & location will be announced Friday afternoon.
6. Module Breakdown - Sunday at conclusion of Train Show.

Portland Daylight Express - General Refund Policy

Upon cancellation by an attendee, the appropriate refund will be issued in like payment. Please see specific refund criteria below. Allow up to 6 weeks processing time. Refunds applied for after July 15, 2015 will not be processed until 6 weeks after the end of the convention. Please note that payment made by credit card will be refunded to your credit card.

Separate policies have been established for registration fees, tours, events, merchandise, etc. Please read each section carefully for cancellation/refund criteria.

Cancellation of Extra Fare Event, Store Merchandise, Extra Fare Clinic or Tour

In the case of a cancellation by the convention, if an extra fare event, store merchandise, extra fare clinic or tour is canceled prior to the convention, a notice will be sent to the attendee informing of the cancellation. A refund will be processed after 30 days of the notice if no other selection is made by the attendee.

Last minute cancellations by the convention may be exchanged for other available events, tours, etc. Refunds will not be processed until after the convention. Please allow up to 6 weeks processing time.

Registration Refunds

Cancellation requests should be received in writing either by standard mail (NCR P O Box 1328, Soddy Daisy, TN 37384) or by e-mail (nmrahq@aol.com). The following registration refund schedule applies to each individual registrant:

- Prior to June 1, 2015 - a refund of the registration fee less a \$25.00 administrative fee per individual registrant will apply.
- June 1, 2015 to July 15, 2015 - A refund of the registration fee less 25%, per individual registrant, will apply (minimum \$25.00).
- After July 15, 2015 and prior to start of convention - A refund of the registration fee less 50%, per individual registrant, will apply (minimum \$25.00).

No refund of the registration fee will be provided after the opening of the convention except upon approval of the Portland Convention Committee.

Tour Refunds for Cancelled Registrations

- Prior to July 15, 2015 - 100% refund of paid tours.
- After July 15, 2015, and prior to the opening of the convention, tour fees will be fully refunded only if the tour has sold out, the tickets have been resold, or if the tour was canceled by the convention.
- After July 15, 2015 - all tickets eligible for resale must be presented to the Tour Desk (at the convention) on a consignment basis only. The Convention does not guarantee that consigned tickets will be resold.

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Portland Daylight Express -
General Refund Policy
Continued From Previous Page

Event Refunds for Cancelled Registrations

- Prior to July 15, 2015 - 100% refund of paid events.
- After July 15, 2015 and prior to the opening of the convention, non-food event fees will be fully refunded only if the non-food event has sold out, the tickets have been resold or if the non-food event was canceled by the convention.
- After July 15, 2015 - all tickets eligible for resale must be presented to the Registration Desk (at the convention) on a consignment basis only. The Convention does not guarantee that consigned tickets will be resold.

Extra Fare Food Events Refunds for Cancelled Registrations

Banquet tickets or food event tickets may be returned for refund until 3 business days prior to the Banquet or event. No refunds for the banquet or event will be issued after the final food commitment is made by the convention manager (whichever date comes first).

During the convention, food event tickets may be presented to the Registration Desk for reselling on a consignment basis only.

The Convention does not guarantee that consigned tickets will be resold.

Merchandise Refunds for Cancelled Registrations

100% refund of paid merchandise if received by June 11, 2015 (This is the advance order cut-off date)

If the request is received after the cut-off date, the merchandise will be shipped to the registrant and appropriate shipping charges will be added to your account.

No refunds for merchandise cancellations after the cut-off date will be issued.

Extra Fare Clinic Refunds for Cancelled Registrations

100% refund of paid clinics if received prior to July 15, 2015

Cancellations after July 15, 2015 are eligible for a refund only if the clinic space is subsequently resold. During the convention, Extra Fare Clinic tickets may be presented to the Registration Desk for resale on a consignment basis only.

The Convention does not guarantee that consigned tickets will be resold.

Auction Refunds

The convention offers no guarantee on the condition of the merchandise offered at the Auction and the buyer is purchasing the merchandise at their own risk. No refunds are provided under any circumstance for the Auction.

Tour & Event Tickets

Tour and event tickets may be presented during the convention for reselling on a consignment basis only. Tour tickets must be turned in to the Tour Desk. Event tickets must be turned in to the convention Registration Desk.

The respective areas will attempt to sell the consigned tickets to other attendees. If successful, the attendee will receive a refund for the ticket value by 6 weeks after of the close of the convention. If the tickets are not resold, the attendee will not receive a refund for the consigned tickets.

The Convention does not guarantee that consigned tickets will be resold.

End of Refund Policy

NMRA National Convention Clinic or Presentation Videotape and Streaming Policy

The National Model Railroad Association, Inc., strictly prohibits individuals or companies from videotaping clinics or other presentations during the national convention, or streaming video (live or taped) from the national convention, unless all of the following requirements are met:

1. Regardless of whether the company or individual is a for-profit or not-for-profit entity, they must submit to NMRA headquarters (HQ) a notification of intent to videotape or stream clinic or presentation content. If that party is a company, that company must be specifically identified along with an authorized representative of that company. That document must specify by name exactly which clinics/presentations the company/individual intends to videotape. A copy should be sent to both the Chief Administration Officer (CAO) at NMRA Headquarters (who will be in charge of overall administration and record keeping of this program) and the manager of the Meetings & Train Show department (who will be the arbiter of any issues that arise regarding this procedure during the convention). NMRA HQ will then acknowledge to the individual or company the receipt of that notification in a timely manner.
2. NMRA HQ will notify the clinician that an individual or company intends to videotape or stream his/her presentation(s) (as stated by name), and will send the clinician a videotaping/streaming agreement for each clinic, which must be signed and returned to NMRA HQ. The agreement grants the individual/company the right to videotape/stream, and the right to use the resultant video production in any manner it chooses for up to two years.
3. Once NMRA HQ has received the clinician's signed agreement, a formal agreement will be sent to the individual/company for their signature. The agreement will restate the NMRA's video policy stipulations, and will also re-state the specific clinic titles which are intended to be taped/streamed. This document must be returned to and acknowledged by NMRA HQ before any videotaping/streaming may take place.
4. NMRA HQ will retain the signed agreement in its records, and also forward a copy to the Meetings & Train Show department manager.
The individual/company who is videotaping must bring a copy of the agreement to the convention as proof to the Convention Committee, any NMRA official, or the clinician that s/he has been granted permission to videotape/stream.
5. The introduction and ending of the edited or broadcast presentation must contain the following on-screen verbiage: *This presentation was recorded at the (YEAR) National Model Railroad Association National Convention in (CITY NAME).*
6. In addition, the NMRA logo must appear. The words must remain on-screen for a minimum of 6 seconds. The presentation name and speakers or principal participants must also be named. For example: *"Handlaying Turnouts" presented by Tony Koester*
7. A "ghosted" NMRA logo must appear in the lower right of the screen, and must remain on screen for the entire duration of the presentation. The logo must be large enough to be legible. This graphic should be similar to what television stations across the country are currently doing.

Continued on next Page

NMRA National Convention Clinic or Presentation Videotape and Streaming Policy

Continued From Previous Page

8. In the case of videotaped productions, a master copy of the edited program must be given to the NMRA, with the understanding that the NMRA also has the right to stream that video from its website following a six month waiting period after the program was taped. This six month window allows the individual/production company exclusivity for that period of time. After that time the NMRA can transfer the video to disc and allow members to borrow it from the Kalmbach Memorial Library, or can stream it from its own website.
9. In the case of videotaped productions, a copy of the resultant production must also be sent to the clinician whose presentation was taped/streamed.
10. In the case of videotaped productions, no production can be posted or distributed before the NMRA acknowledges and approves the individual's/production company's intent to videotape.
11. Videotaped productions may be used by the individual/production company in any manner it chooses for up to two years. Should the company wish to use the production beyond two years, it must state its intent to NMRA HQ, who must then notify and receive approval from the clinician. The NMRA, the clinician, and the individual/company will agree upon a duration for use at that time.

The above videotaping policy needs to be plainly stated prior to the convention, in both the convention handout booklet and on the convention website. In addition it needs to be made available to HQ so that individuals emailing, calling, or writing enquiring about taping/streaming may be made aware of the policy.

The NMRA must notify all clinicians and presenters that there is a possibility that an individual or company may be videotaping or streaming their presentation, and that they will be notified beforehand. The clinician or presenter has the right to deny the individual or company videotaping rights. This denial can be for any reason, ranging from the use of copyrighted material in the presentation, to unease in front of a camera. The production company or individual needs to know and agree that the clinician or presenter has the final word on this.

end of policy statement

Registration

Pre-registered convention participants pickup your packet at the desk in the ballroom lobby on Saturday, Sunday and Monday.

New Registrations, tour ticket transactions, Food Event tickets, NMRA office and National Train Show office are in the **Halsey** Ballroom.

Hours are:

Saturday, August 22	5:00 p.m. - 8:00 p.m.
Saturday for pre-registrants only.	
Sunday, August 23	7:00 a.m. - 5:00 p.m.
Monday, August 24	7:00 a.m. - 5:00 p.m.
Tuesday, August 25	7:00 a.m. - 5:00 p.m.
Wednesday, August 26	7:00 a.m. - 5:00 p.m.
Thursday, August 27	7:00 a.m. - 5:00 p.m.
Friday, August 28	1:00 p.m. - 5:00 p.m.
Closed for lunch each day	Noon - 12:30 p.m.
NMRA Office is at NTS Friday - Sunday.	

Company Store

The company store is located in the **Hawthorne** Ballroom.

Store Hours are:

Sunday	8:00 a.m. - 7:00 p.m.
Monday - Thursday	10:00 a.m. - 7:00 p.m.
Friday	12:00 noon – 4:00 p.m.
Saturday	Closed

Closed for posted meal breaks.

The Portland Daylight Express Company Store carries stocks of all convention items, including:

- *Shirts.* Official Golf and Denim, Woven shirt and Pocket T-shirts. The size range for these shirts is M – 3XL.
- Personalize your conventions shirts with our in house embroidery specialist. We will embroider one (1) name, with a maximum of 10 letters on the shirts you purchased at this convention. Price: \$5.00 each. We will offer a 24 hour turnaround. Bring your shirts to the Non-Rail room .
- *Extras.* Patches, Pins and Tote bags, books.
- *Convention Cars.* Limited edition NMRA 2015 Convention cars in HO and N scale.
- *Portland Daylight Express convention timetables.*
- Tri-Met MAX tickets and passes. If you plan to use MAX during convention week pass fares are:

Adult 1-day	\$5.00	Adult Week	\$26.00
Senior 1-day	\$2.00	Senior Week	\$7.00

MAX “Honored Citizen” (Senior) fares start at 65 years.

Pre-Ordered Merchandise

Portland Daylight Express attendees who have pre-ordered merchandise will receive a voucher for picking up their merchandise. The voucher will be in your registration packet.

The merchandise can be picked up at the Company Store.

Bag Checks

A standard part of convention security is that bags are not permitted in areas where people’s assets are accessible (e.g. models on display and for sale). This includes the SIG rooms, RPM, Contest Room and Silent Auction.

We will operate bag check facilities at both the Silent Auction and the Ballroom areas.

Please ensure your name is on all items checked.

Airline baggage name tags are ideal for the purpose.

Convention Office

The Convention Office is in the **Morrison** Ballroom.

Office hours:

Sunday	8:00 a.m. - 6:00 p.m.
Monday - Thursday	9:00 a.m. - 6:00 p.m.
Friday	12:00 noon - 6:00 p.m.
Saturday	9:00 a.m. - 4:00 p.m.

Closed for posted meal breaks.

Lost and Found and Ask-Me Desks are located in this office.

Volunteers

Have some time and want to help? We can always use additional volunteers to assist with several positions during the event.

The Volunteer desk is in the Convention Office.

Meetings

All meetings are open to all NMRA Members

NMRA Board of Directors Meeting

Saturday, August 22, Roosevelt 9:00 a.m. - 5:00 p.m.

Meet the Leaders

Sunday, August 23, Mt. Hood 2:30 p.m. - 3:30 p.m.

NMRA Canada Membership Meeting

Monday, August 24, Washington 6:00 p.m. - 7:00 p.m.

NCE DCC Clinic - user group meeting

Monday, August 24, Mt. St. Helens 8:30 p.m. - 11:00 p.m.

JMRI user group meeting

Tuesday, August 25, Weidler 8:30 p.m. - 11:00 p.m.

LDSig Annual Meeting

Wednesday, August 26, Holladay 8:00 a.m. - 9:00 a.m.

PNR Board of Directors Meeting

Wednesday, August 26, Weidler 4:00 p.m. - 5:00 p.m.

PNR Membership Meeting

Wednesday, August 26, Weidler 7:00 p.m. - 9:30 p.m.

OpenLCB user group Meeting

Wednesday, August 26, Sellwood 7:00 p.m. - 8:00 p.m.

OPSig Annual Meeting

Thursday, August 27, Holladay 1:00 p.m. - 2:00 p.m.

Meet the Prez

Thursday, August 27, Weidler 7:00 p.m. - 8:00 p.m.

Digitrax User Forum

Thursday, August 27, Mt. Hood 7:00 p.m. - 9:30 p.m.

C/MRI 30th birthday celebration

Thursday, August 27, Mt. Bachelor 7:00 p.m. - 9:30 p.m.

Annual NMRA Business Meeting

Thursday, August 27, Weidler 8.30 p.m. - 9:30 p.m.

Non-Rail and General Interest

Non-Rail R&R

The **Alaska Meeting Room** is our “Non-Rail R&R” Room. Adjacent is the **Oregon Room**, for scheduled Non-Rail Clinics and Project Linus, plus the Idaho Room for some events.

This room is dedicated to the use of registered companions of the model railroaders attending this convention. It is a room in which to relax and socialize. There are puzzles, games, cards and books in this room. Come by and meet your friends and make new friends. Check out the bulletin board to see if there are any messages for you, any changes to the schedule, or special notices.

Hours of operation:

Sunday	4:00 p.m. - 10:00 p.m.
Monday	8:00 a.m. - 10:00 p.m.
Tuesday	8:00 a.m. - 10:00 p.m.
Wednesday	8:00 a.m. - 10:00 a.m.; 4:00 p.m. - 10 p.m.
Thursday	8:00 a.m. - 10:00 p.m.
Friday	8:00 a.m. - 10:00 p.m.
Saturday	8:00 a.m. - 4:00 p.m.

General Interest Tours

General Interest Tours are listed from page 52. Tours will be dispatched from the Exhibit Hall in the same manner as Layout and Prototype tours. Prepaid tickets are required.

Project Linus

Monday - Friday Oregon

9:30 a.m. - 10:00 p.m.

What is Project Linus?

Project Linus – the perfect name – based on the adorable security blanket-toting character from the Peanuts comic strip. Creator Charles Schulz was aware of our efforts and was delighted to have Linus inspire blanket makers (blanketeers) to help comfort children in need.

Our chapter is a 100% volunteer non-profit organization and shares the same two-fold mission as all other Project Linus chapters of the National Organization – through service in our community, provide comfort to children:

First, it is our mission to provide love, a sense of security, warmth and comfort to children who are seriously ill, traumatized, or otherwise in need through the gifts of new, handmade blankets and afghans, lovingly created by “blanketeers.”

Second, it is our mission to provide a rewarding and fun service opportunity for interested individuals and groups in local communities, for the benefit of children.

Jodene Cook, the Portland/Vancouver Chapter Coordinator, will give us a brief talk at the “Welcome to the Non-Rails” on what happens with the donations of quilts from organizations or individuals wanting to help. The rest of the week the Alaska room is open to anyone wishing to help make quilts. If you know how to cut a piece of fabric, we can use your help! All the materials are supplied including the sewing machines! There will be people there to guide you. Let’s see how many we can create before the end of the week!

Special Events in the Clinic Room**Non- Rail Committee*****Welcome to the Non-Rails***

Monday

Oregon

9:30 a.m. - 10:30 a.m.

Welcome to Portland 2015! This get together is where we can meet and greet old friends and make new ones. We will be going over the clinics offered this week and reviewing any schedule changes. Jodene Cook from Project Linus will be here to explain our all week project.

Pishing, Clare***Medicare Fraud***

Monday

Oregon

11:00 a.m. - noon

Clare Pishing will present information on how to avoid medicare fraud. She will provide handouts and priceless suggestions on this important topic.

Madsen, Suzy***Wine Bottle Wind Chime and Luminary***

Monday

Oregon

1:00 p.m. - 3:30 p.m.

Suzy Madsen will show you how to take those old wine bottles and turn them into two beautiful items. A \$5.00 fee if you would like to make these items to take home.

Webster, Kristy***Make Your Own Applique***

Monday

Oregon

4:00 p.m. - 5:00 p.m.

Kristy Webster will show you how to take a simple picture and turn it into a lovely appliqué for any project.

Madsen, Suzy***Games Night***

Monday

Oregon

7:00 p.m. - 9:30 p.m.

Remember board games? Those were those things that we played before the computer took over our play time. We will have Scrabble, Monopoly and a few other games sure to flex those brains of ours!

Hotel Chef***Cooking Demo***

Tuesday Oregon 9:30 a.m. - 10:30 a.m.

Our amazing Chef from the DoubleTree Hotel had offered to surprise us with a cooking demonstration. We know it will be marvelous!

Webster, Kristy***Tracking the Wild Train Chaser***

Tuesday Oregon 11:00 a.m. - noon

Kristy Webster has a wonderfully funny slide show chronicling our love of train enthusiasts.

Hamilton, Donna***Gardening: "How I wish I had known..."***

Tuesday Oregon 1:00 p.m. - 2:00 p.m.

Donna Hamilton will be discussing things she wishes she had known before she even started to plant and valuable lessons she has learned. She will show pictures of before and after areas and her favorite easy and beautiful plants.

Forbes, Diane***Fabric Flowers***

Tuesday Oregon 2:30 p.m. - 3:30 p.m.

Diane Forbes is at it again with a new way to make flowers with fabric. These beautifully simple flowers can be used for broaches, hat pins, gift bag decoration, or many other uses. (Small fee)

Hester, Laurie***Knit Night***

Tuesday Oregon 7:00 p.m. - 9:30 p.m.

Bring your yarn related projects (crochet welcome!) and have a fun evening of stitching with like minds people. Help available for your learning needs.

Bursztein, Nora***iPad Basics***

Wednesday Oregon 9:30 a.m. - 10:30 a.m.

Nora Bursztein has been a teacher for many years and will give us a primer on using this amazing little computer. It changed my ideas on what a computer can be in your life!

Webster, Kristy***Stamped Tea Towels***

Wednesday Oregon 11:00 a.m. - noon

Come and make a lovely tea towel with roses stamped on them. They make wonderful gifts too. \$3.00 fee.

Non-Rail Luncheon

Wednesday Alaska noon – 2:00 p.m.

See Food Events for details

Johnson, Ron***Take a train to Downton Abbey***

Wednesday Oregon 4:00 p.m. - 5:00 p.m.

People who have become fascinated with the popular Downton Abbey TV series might well be interested in travelling to England to see the "real" Abbey (portrayed by Highclere Castle in the filming). Luckily, England has hundreds of opportunities for seeing similar estates. In addition, Britain has an extensive collection of preserved railways, most with a number of operating steam locomotives, so that both rail and non-rail travellers can enjoy the same trip. The presenter has successfully combined these interests with spouse and friends on over twenty trips. Includes photos and travel tips to smooth the way for a flawless vacation.

Movie Night

Wednesday Oregon 7:00 p.m. - 9:30 p.m.

The movie is TBA but there will be popcorn & goodies!

Baldwin, Kate***Yoga: "Gentle Yoga"***

Thursday Oregon 9:30 a.m. - 10:30 a.m.

This class is presented by Kate Baldwin. Everyone can participate safely in this class regardless of yoga experience, flexibility, or stamina. This inspirational class is great for older beginners, arthritis, limited mobility, general stiffness, injuries, chronic pain, or fatigue. Traditional yoga postures are modified & guided in stages, with an emphasis on steady breathing, and self-awareness. Chairs are available for seated poses, resting, and to help with balancing postures. Really, you don't have to get on the floor if you are unable to, or if you are not comfortable with the idea. All body types and abilities are welcome! (\$5 drop in fee)

Johnson, Ron***Don't let the waiter take your pictures!***

Thursday Oregon 11:00 a.m. - Noon

This is a non-technical and fun presentation for owners of point and shoot cameras (and phones and tablets). Most people keep their cameras in their purse or pocket until they get to the restaurant. Then they ask the waiter to snap their pictures in the worst possible lighting conditions. Better to adjust your thinking to good lighting conditions, avoiding posing, and improve compositions. Nothing much about trains here, just good family photos.

Madsen, Suzy***Wine Bottle Wind Chime and Luminary***

Thursday Oregon 1:00 p.m. - 3:30 p.m.

See Monday for details

Madsen, Suzy***Washer Necklaces***

Thursday Oregon 4:00 p.m. - 5:00 p.m.

These lovely necklaces can be made simply and add color to your outfit. This is a free make & take.

Madsen, Suzy***Bingo Night***

Thursday Oregon 7:00 p.m. - 9:30 p.m.

What is a convention without Bingo! Tons of prizes and surprises!

Crawford, Diane***Quilt Binding***

Friday Oregon 9:30 a.m. - 10:30 a.m.

Diane Crawford offers her skills with quilt binding done easily enough that you go home with a pot holder in your choice of fabric. This is a free make-and-take.

Forbes, Diane***Mod Podge Ornaments***

Friday Oregon 1:00 p.m. - 2:00 p.m.

Diane Forbes will show us how to use mod podge to create lovely ornaments.

Madsen, Suzy***No Sew Gift Bags***

Friday Oregon 4:00 p.m. - 5:00 p.m.

Choose your fabric and make this useful reversible gift bag. Perfect for any occasion. This is a free make-and-take.

Moore-Campagna, Mary***Olde Time Sing-a-long***

Friday Oregon 7:00 p.m. - 9:30 p.m.

Mary Moore-Campagna will lead us in a very casual sing-a-long. Song sheets will be provided!

Madsen, Suzy

Saturday Oregon 9:30 a.m. - 2:30 p.m.

Project Linus

Come by at your leisure and help us finish creating these little quilted hugs for children in need. (See Welcome to Non-Rails) We will be in need of people to do everything from cutting fabric, sewing on the machine, hand sewing and ironing to sorting fabric and packing up the quilts.

Modeling with the Masters**In the Washington Meeting Room.****MWTM Sunday, Aug. 23****Building Structures with Card and Paper****C190 5:30 p.m. to 10:00 p.m. All Scales \$48.00**

Lead Instructor: Jim Gore MMR;
assisted by Peter Youngblood, MMR, Clark Kooning, MMR,
and Fred Headon, MMR

Jim Gore, MMR, will take you on an amazing journey into Card-stock and Paper buildings. This hands-on clinic is all about building structures from paper which has been printed to look like a building. This clinic will cover the construction of a basic card-stock kit. He will cover printing, card-stock selection, and tools and techniques and some detailing and weathering ideas for cardstock in general. You will be amazed at how real these card stock buildings look. And yes, we will build a structure - "The Silver City Nevada Mine Shed" from Clever Models.

Required Tools:

1 Xacto knife with new #11 blades

Extra new #11 blades

Self-healing cutting mat 8 1/2" x 12" (or larger is fine)

Fine-tipped forceps ("tweezers" not a hemostat)

#2 or smaller stiff-bristled paint brush

MWTM Monday, Aug. 24**Scratch Building a Small Culvert type Bridge****C291 8:00 a.m. to Noon HO/N \$35.00**

Lead Instructor: Clark Kooning, MMR;
assisted by Peter Youngblood, MMR, Fred Headon, MMR, and
Jim Gore, MMR

Clark Kooning, MMR, and the MWTM team will provide you with the knowledge to build a small bridge with structural elements out of Styrene and wood. This small but effective bridge would be used in many situations where the railroad would cross small drainage ditches or small dry river beds. You will be shown how to build using styrene elements plus the use of wood for the abutments. You will learn how to stain wood and use Pan Pastels to add color to your scratchbuilt bridge. In addition, you will learn about applying the small details which make this bridge come alive.

Required Tools:

Hook tip tweezers, Toothpicks, Steel straight edge

Assorted Paint brushes Straight tip tweezers

Sanding stick or flat file

Xacto saw fine blade with Miter Box

#1 Xacto Knife with FRESH #11 blades

FRESH single edge razor blade

12" Steel ruler graduated in scale feet (for your scale)
 Small triangular hobby square
 Emery boards (the ones women use to file their nails)
 1 (000) Sable paint brush (also called Natural paint brush)
 Self-healing cutting mat 8 1/2" x 12" (or larger is fine)

Scratch Building with Balsa Foam

C292 1:00 p.m. to 5:30 p.m. HO/O \$48.00

Lead Instructor: Peter Youngblood, MMR;
 assisted by Clark Kooning, MMR, Jim Gore, MMR, and
 Fred Headon, MMR

Peter Youngblood, MMR, will teach you all about Balsa Foam. This material is a plastic foam that carves like butter, paints like wood and has countless model railroad applications in all scales. Using this amazing material you'll build a single track concrete pedestrian underpass and learn how to make bridge abutments, retaining walls, signal pedestals, platforms, and much more.

Required Tools:

1 Xacto knife with new extra #11 blades
 12" Steel ruler graduated in scale feet
 # 11 Xacto blades (5 pack) Small triangular hobby square
 # 17 Xacto lightweight chiseling blade
 Emery boards
 Razor Saw w/fine tooth blade
 1 package Handy Wipes
 Self-healing cutting mat 8 1/2" x 12" or larger

Introduction to Plastic Structures & Painting with Acrylics and Pan Pastels (Part A of 2)

C293 7:00 p.m. to 10:30 p.m. HO \$55.00

Lead Instructors: Fred Headon, MMR and Clark Kooning, MMR;
 assisted by Peter Youngblood, MMR and Jim Gore, MMR

Fred Headon, MMR, will take you thru the steps of building a Plastic Structure for the first time. This is a great project for those who are new to building structures and those who have lots of experience. This clinic is not just about building a plastic structure kit; it is also about the new ways of painting these types of plastic kits. You will be taught to use Acrylics or craft type paint plus the use of Pan Pastels as a whole new way of painting a structure. You will be amazed at what you can do simply with a brush and a sponge. You will be assisted by 3 other MMRs during your hands-on experience. This is a two (2) part clinic. In the first clinic session, you will learn to assemble the kit project and apply the basic paint foundation. Due to the need for drying time, we will then have a second session on painting the structure with Acrylics and Pan Pastels. (Fee paid also covers Part B - below.)

Required Tools:

Self-healing cutting mat 8 1/2" x 12" or larger
 #1 Xacto knife with NEW #11 blades
 Extra new #11 blades
 NEW single-edge razor blades
 Tweezers – straight tip, hooked tip
 Sanding stick and/or flat file

Bring any other tools you usually use or might find useful.

Optional tools:

Optivisor, extra work light. These are handy tools which you could use in our clinics, but it is not essential that you buy them just for this week. It is your option!

A good way to carry all of these tools is to buy a small inexpensive plastic tackle box. These are usually available at department stores year round.

MWTM Tuesday, Aug. 25

**Introduction to Plastic Structures & Painting with
Acrylics and Pan Pastels (Part B of 2)**

C394 8:00 a.m. to 11:30 a.m. HO

This session continues from part A. **Fee paid for part A covers part B.** You must participate in both parts of this project. Part B is painting the item from Part A.

Lead Instructors: Fred Headon, MMR and Clark Kooning, MMR;

assisted by Peter Youngblood, MMR and Jim Gore, MMR

Fred Headon, MMR, will take you through the steps of building a Plastic Structure for the first time. This is a great project for those who are new to building structures and those who have lots of experience. This clinic is not just about building a plastic structure kit; it is also about the new ways of painting these types of plastic kits... Due to the need for drying time, in part two of this clinic, you will be taught to use Acrylics or craft type paint plus the use of Pan Pastels as a whole new way of painting a structure. You will be amazed at what you can do simply with a brush and a sponge. You will be assisted by 3 other MMRs during your hands on-experience.

Required Tools:

Self-healing cutting mat 8 1/2" x 12" or larger

#1 Xacto knife with new #11 blades

Metal cutting edge (scale rule will work)

NEW single-edge razor blade,

NEW #17 blade in an Xacto knife

Tweezers – straight tip, hooked tip,

Sanding stick and/or flat file

3 or 4 small (approximately 2.5 oz) weights.

Paint brushes -

#2 flat tip bristles, (#000 flat tip or pointed tip bristles)

Scratch Building Loads for your Freight Cars

C395 1:00 p.m. to 5:30 p.m. HO/N \$45.00

Lead Instructor: Peter Youngblood, MMR;

assisted by Clark Kooning, MMR, Jim Gore, MMR, and

Fred Headon, MMR

Your lead instructor on this clinic is Peter Youngblood, MMR. Using styrene sheets, shapes and wood, you'll learn how to make removable steel coil loads and two different types of cradles to secure them prototypically in USRA gondolas. MWTM will supply the appropriate car in your scale for this project.

Required Tools:

1 Xacto knife with extra new #11 blades

Small hobby square

Emery boards

Razor Saw w/fine tooth blade

2 Paint brushes (#00 & #3)

12" Steel ruler graduated in inches

Self-healing cutting mat 8 1/2" x 12" or larger

Introduction to Building your own Turnouts

C396 7:00 p.m. to 11:00 p.m. Tuesday

C497 7:30 a.m. to 11:30 a.m. Wednesday

HO/HOn3/N \$48.00

S/Sn3/On30 \$55.00

Lead Instructor: Clark Kooning, MMR;

This clinic is about using a commercial product to build turnouts. Clark Kooning, MMR, and the owner of Fast Tracks, Tim Warris, will be on hand to teach you how to use the FAST TRACK products to build your very own scratch built turnout.

Required Tools:

Cutting mat (should be of reasonable size. This is a must item!)
 10" new sharp Mill Flat file, Smooth cut (not Bastard cut) (This is a must item! Make sure it's new!)

Needle nose Pliers

Short Power bar

Tweezers

Triangular needle file

A small soldering iron of 25 to 35 watt for N scale,

Requires 35 watt for HO or larger (Make sure your iron has a pencil type tip. Recommend WELLER model WP35. This is a must item!)

Modeling with the Masters clinics have limited capacity. Participation is reserved by pre-paid fee. Participants bring your own tools, appropriate to the clinic. Check at Registration for availability.

Special Interest Groups

In the Holladay and Broadway Ballrooms.

Our SIG Coordinator has assembled a record number of participating Special Interest Groups.

Each is listed below, with dedicated activities for SIG members, and fellow convention participants interested in their specialty.

Featured below are:

Layout Design SIG	LDSig
Operations SIG	OPSig
Railroad Prototype Modelers	RPM
S-Scale Sig	
Computer/Model Railroad Interface	C/MRI
NMRA LCC/Open LCB	LCC

The Special Interest Group Room hours are:

Sunday 4:00 p.m. - 10:00 p.m.

Monday - Thursday 9:00 a.m. - 10:00 p.m.

Friday 1:00 p.m. - 4:00 p.m.

Closed at posted meal times.

Limited attendance during some planned activities.

Layout Design SIG

The Layout Design Special Interest Group, Inc. (LDSIG) is an association that is focused on bringing attention to designing model railroad layouts and their elements. We are a tax-exempt 501(c)(3) non-profit educational organizations that exists to:

- Act as a forum for members' exchange of information and ideas.
- Develop improved methods for hobbyists to learn the art and science of layout design.
- Provide leadership for planning, developing, coordinating and expanding the knowledge base for designing and building model railroads that satisfy the goals of the owners.
- Promote, develop, support and encourage the participation by the public in model railroading.

Its prime purpose is to aid efforts in designing and creating layouts that achieve the owner's layout goals within a minimum amount of space and cost. We try to avoid common design flaws, while including recognizable renditions of the prototype, as well as design features that maximize operating and visual interest.

LDSIG membership benefits include opportunities to meet fellow designers and operators at regional and national events, forums for the exchange of ideas among members and the public, and four issues of our periodic publication, the ***Layout Design Journal***. It also offers the chance to interact with others willing to assist you with your designs, and participation in several Internet discussion groups.

Our slogan, "Make only new mistakes" means don't repeat the old ones -- they've already been made a number of times.

SIG Room

Please stop by and see us in the SIG room.

The LDSIG will have space in the SIG room for group gatherings. It is a convenient location to drop in between clinics. The networking and conversations taking place here are often the most memorable and valuable of your time at the convention. There will be displays of members' layouts and plans for future layouts. These informative displays will explain how others have solved their layout design problems. Layout owners will be available at times to discuss their concepts and approaches to creating their visions. The SIG Room is generally open 8:00 a.m. to 10:00 p.m. Monday through Thursday. Hours for Friday will be posted near the LDSIG Desk in the SIG Room.

The SIG room serves as headquarters for LDSIG activities during convention week. LDSIG Layout Tour information, SIG Dinner details, car pool sign ups, Design Consultation Service sign-ups, availability of *Layout Design Journal* back issues, and general comradeship are available at all times. Feel free to pick up a membership application on the spot.

A bulletin board will have important updates about LDSIG events - be sure to check daily for activities and schedules. You can also find members with common interests, especially between clinics. Please update your membership roster, railroad interests, and contact information, especially email addresses and cell phone numbers at the LDSIG desk.

LDSIG / OPSIG Meet 'N Greet - Sunday 7:00 p.m.

Begin your convention on the right foot by getting to know other convention attendees that are especially interested in layout design. The Meet 'N Greet takes place in the SIG Room. Hear informal LDSIG-member introductions, and presentations about individual layout design and construction status. Get the latest updates on tours, make yourself known, exchange ideas, and enjoy meeting new friends. meet published authors and respected contributors to various publications and internet lists. Shirts for those attending the LDSIG Layout Tour on Wednesday will be distributed; exchange your ticket for your shirt. You can make and review carpooling arrangements for Wednesday's Layout Tour.

LDSIG Clinic Track

The LDSIG and OpSIG have arranged four days of clinic and forum discussions focusing on a wide range of design and operating topics, presented by knowledgeable and insightful modelers.

Clinics are scheduled to be presented by Craig Bisgeier; Rodney Black; Bruce Chubb; Robert Clark; Mark Dance; Bill Decker; Henry Freeman; Cody Grivno; Don Hanley; Seth Neumann; Byron Henderson; Greg Johnson; Bill Kaufman; Bernie Kempinski; Max Maginess; Ed Merrin; Bruce Morden; Seth Neumann; Chuck Catania; Lee Nicholas; Dave A. Parks; Kermit Paul; Bruce and Linda Petrarca; Jim Providenza; Gary Robinson; Tony Thompson; Phil Klein and Dave Waterstreet; and Greg Wright. Moderated forums will involve panels of experienced hobbyists with opportunities for questions and exchange of information with the audience.

See the complete schedule and clinic descriptions in the clinic portion of this Timetable, or at the LDSIG website:
www.ldsig.org/portland2015

Layout Design Bootcamp Monday 8:00 a.m.

Layout Design Journal editor and custom layout designer Byron Henderson and Seth Neumann of the NMRA's Layout Design Special Interest Group are leading a Layout Design "Bootcamp".

This four-hour clinic is open to all convention attendees, and begins at 8 a.m., Monday, August 25, 2015 and will be held in the Mt. Bachelor room. The Bootcamp is an intensive session on track planning and layout design. Discover how to refine vision, concept, and purpose; select layout footprints and schematics; draw accurate and useful plans; create efficient and engaging yards and industrial areas; make best use of staging tracks; maintain space for people; and avoid common track planning errors. Step-by-step examples from a variety of layout designs will be discussed.

Whether your dream layout is strongly prototype-based, a creative freelanced theme, or somewhere in between, this practical session will give you the tools and best practices to design a great layout!

Among the topics to be covered:

- Layout design phases: Conceptual, Structural, and Detail
 - Developing vision, theme, and purpose
 - The impact of givens and 'druthers considering space, resources, and skills
 - Prototype research techniques and tools
 - The user and viewer experience
 - Layout footprint techniques
 - Drawing and rendering tools and best practices
 - Planning for people
 - Multi-deck considerations
 - Yard planning
 - Staging design
 - Signature elements vs. typicality
 - LDEs: Possibilities and pitfalls
 - Tricky traps of layout design (common errors to avoid)
 - Layout design for operation
- ... and much, much more!

LDSIG Layout Design Consultation Program.

The LDSIG offers a free design consultation service to all convention attendees. Stop by and sign up for an available half-hour consultation session with an LDSIG member daily Monday afternoon through Friday afternoon (except Wednesday). Bring your list of "Givens and Druthers", proposed track plans, questions, etc, to get fresh insight and valuable help.

LDSIG Annual Meeting Wed. August 26 8:00 a.m.

The Annual Membership Meeting will be held in the SIG Room. The agenda includes officer and volunteer reports, and the results of the election of Directors. All LDSIG members at the convention are encouraged to attend and participate. LDSIG Layout Tour packages will be distributed at the end of the meeting..

LDSIG Layout Tour Wed. August 26 \$35.00

The Tour is recommended to LDSIG and OPSIG members, but is open to all convention attendees (Purchase your tickets at the Convention Registration Desk).

We will again provide the traditional self-guided LDSIG Layout Tour on Wednesday. Pick up your map and location data in the SIG room after the LDSIG Annual Meeting. Turn in your ticket for a 2015 Layout Tour Commemorative Shirt at Sunday

evening's Meet 'n Greet, or at the LDSIG Desk in the SIG room before Wednesday.

Your shirt will serve as your admission to the Tour layouts.

LDSIG Layout tour owners and an overview map are listed on the LDSIG website: www.ldsigsig.org/Portland2015/layouts. Addresses for programming your GPS and contact numbers will be provided at the end of the annual meeting. Check the open hours for the layouts! Not all layouts will be open throughout the day.

These layouts incorporate design features that successfully represent the goals of the Layout Design Special Interest Group. They will specifically be open Wednesday, August 26, 2015 for the limited viewing, without the time restraints involved with a bus tour.

It is usually more enjoyable visiting layouts with friends, old and new. The commentary while traveling can be very enlightening, with all bringing their own viewpoint to the visit. Meal breaks can be arranged with your traveling companions, selecting venues of your own choice. Car Pools will be arranged through the LDSIG in the SIG Room to minimize impacts of parking and cost. Your group will need a GPS, as individual maps and driving directions will not be provided. Naturally, travel in personal vehicles does not fall under the insurance coverage of the NMRA or LDSIG.

LDSIG/OPSIG Dinner Fri. August 28 6:00 p.m.

See Food Events for details, and description of the after-dinner speech by Dr. Bruce Chubb.

Operations SIG

The NMRA Operations Special Interest Group (OPSIG) is devoted to furthering the simulation of prototypical practices on scale model railroads. This includes the sharing of information on various methods of generating, moving and controlling traffic to heighten the feeling that our models are an active part of the rail transportation network serving shippers and consignees throughout North America and beyond.

Please go to www.opsigsig.org for more information on upcoming events. Information about OPSIG activities, publications and membership will be available in the SIG room as well.

You can join the group or renew your membership on the website or at the convention.

Layouts for operation are listed on the convention website at www.nmra2015portland.org/opsig

Operating session registrations are open to all convention attendees, although OPSIG membership is highly encouraged. You must be registered to attend an ops session. Some of the operating layouts are of modest size and can accommodate only the operating crew. If you register at the convention you can fill any remaining slots or those made available by drop-outs. A stand-by registration list will be maintained at the OPSIG desk in the SIG Room.

Crew Call. A crew call for each evening's operating sessions will be held at 4 p.m. in the SIG Room. Attendance is mandatory. Anybody not present will lose their operating slot, as it will be back-filled from the stand-by list. The crew call function is to assure full operating crews for layouts and to help form car pools. Check in at the OPSIG desk for crew call requirements for the daytime operating sessions.

Clinics and three SIG functions will enhance your operations interests during the convention. We have a number of professional railroaders in the region who regularly contribute to our hobby activities. Several of these are on the clinic schedule.

Three OPSIG functions are scheduled:

1. SIG "Meet 'N Greet" in the SIG Room on Sunday evening, beginning at 7 p.m. Hear informal LDSIG and OPSIG member introductions. Get the latest information on layout operating sessions. Make yourself known, exchange ideas, and enjoy meeting new friends.
2. OPSIG Annual Meeting in the SIG Room on Thursday at 1 p.m.
3. LDSIG/OPSIG Dinner Friday, August 28, 2015, 6 p.m. through 9 p.m.. (Purchase your tickets at the Convention Registration Desk.)

Railroad Prototype Modelers

The Railroad Prototype Modelers (RPM) Room at PDX2015 provides a relaxed environment for convention attendees to display their modeling efforts for viewing and discussion outside the framework of the formal modeling contest.

The prototype modeling movement began after the 1984 NMRA National Convention in Kansas City. A group of modelers attending that convention were seeking to increase the visibility of modern prototype models featured in contests, displays and modeling articles in the commercial model railroad press. These modelers decided they would attend the 1985 50th Anniversary NMRA Convention in Milwaukee and display models as a group in their own space. As a result the Modern Prototype Modelers group was born. The Milwaukee Convention was a huge success for the prototype modeling movement as one hundred and twenty-five models were display for public viewing and peer judging.

In 1987, the group changed its name to the Railroad Prototype Modelers (RPM) and expanded its scope to not only include contemporary models, but models of earlier eras as well. Meets are now organized all over the United States and Canada by local volunteers who want to promote the concept.

The PDX 2015 RPM Room will open at 10:00 a.m. on Wednesday, and conclude at 8:00 p.m. on Thursday. Please come by whether or not you have models for display. Security will be in-place during event hours, and the room will be locked overnight on Wednesday. Rick Selby and Timothy Costello are serving as co-chairs for this year's RPM Room. They can be reached through the convention website to address any questions prior to the event.

RPM Room Display Hours in the **Broadway Ballroom**.

Wednesday 10:00 a.m. - 8:00 p.m.

Thursday 10:00 a.m. - 8:00 p.m.

S-Scale Sig

The S Scale Special Interest Group is guided by the following mission:

- Promote S scale model railroading compatible with NMRA/NASG standards and recommended practices.
- Provide a forum for S scale camaraderie, exchange of information, expertise, advice and technique.
- Emphasize S scale's size advantage.

The SIG serves as a clearinghouse for news, information and the discussion of S Scale trains. The S Scale SIG seeks to increase the awareness of S Scale modeling within the greater model railroad community, attract new modelers to 1:64 and promote the manufacture of the highest quality models at 1:64.

The S Scale SIG defines scale modeling, regardless of gauge, as:

- Wheels and track compatible with NMRA specifications S-1.1, S-1.2, S3.1, S-3.2 S-4.1 and S-4.2.

- A coupler size equal to or smaller than Kadee #802 and compatible with NMRA specification S-2.

A rail height in the approximate ratio of 1:64 to the prototype being modeled.

CMRI Sig

The CMRI SIG was just formed this year. The Computer Model Railroad Interface (C/MRI) is the oldest (described by Dr. Chubb in MR in 1985) and most widely accepted open layout control bus with over 3,000 systems installed.

The CMRI SIG serves as a clearing house for information about:

1. The CMRI standard: LCS-9.10
2. general information and mutual support surrounding the C/MRI system as developed by Dr. Bruce Chubb

The CMRI SIG will have demonstrations running in the SIG room all week and we'll be holding a CMRI/30! celebration Thursday night in honor of the 30th anniversary year of the seminal series in Model Railroader.

NMRA LCC/OpenLCB

The OpenLCB group consists of dedicated volunteers seeking to push the boundaries of model railroad control using the latest modern technology. We have been commissioned by the NMRA to develop a set of standards that can be adopted by the NMRA as the Layout Command Control (LCC) S-9.7 standards for interoperability of model railroad layout control between products from differing manufacturers and organizations.

For each aspect of control, OpenLCB develops documentation through an iterative process of proposal, implementation, and testing. Once an OpenLCB standard has been rigorously documented and one or more implementations have been thoroughly tested, it becomes a candidate for adoption by the NMRA as an LCC standard. OpenLCB is, by design, a superset of, and interoperable with the LCC standards. LCC is not intended to replace DCC, and is specifically designed to complement and inter-operate with DCC. One might think of LCC being for your layout what DCC is for your trains.

The Open Layout Command Control (Open LCC) group will present a series of clinics listed below. They also will have an information table in the SIG Room. Open Local Command Bus (Open LCB) is the medium through which communications are made among layout electronic devices.

Learn about Open LCB/LCC at the clinic and on the web at: <http://openlcb.com/>

This track of clinics introduces NMRA Layout Command Control. The clinics are listed in order of presentation. Full descriptions appear in the Clinic program under presenters Stuart Baker, David Harris, Stephen Priest, Balazs Racz.

Introducing NMRA LCC - NMRA Layout Command Control
Wednesday Sellwood 2:30 p.m. - 3:30 p.m.

OpenLCB/NMRA LCC - Overview and Current Status
Wednesday Sellwood 4:00 p.m. - 5:00 p.m.

OpenLCB User's Group Meeting
Wednesday Sellwood 7:00 p.m. - 8:00 p.m.

NMRA LCC (Layout Command Control) from the user's perspective
Wednesday Sellwood 8:30 p.m. - 11:00 p.m.

Building an NMRA LCC Node using Commercially Friendly, Free, and Open Source Software
Thursday Weidler 8:30 p.m. - 11:00 p.m.

Special Interest Group websites:

Layout Design SIG	www.ldsigsig.org/
Operations SIG	www.opsigsig.org/
S-Scale SIG	http://sscalesig.org/
RPM	www.railroadprototypemodelers.com/
CMRI SIG	www.nmra.org/sigs/cmri-sig
NMRA LCC	http://nmranet.org/
Open LCB	http://openlcb.com/
Several also represented on Yahoo Groups.	

Food Events

Portland Daylight Express offers the following food events. Tickets may be purchased at NMRA Registration in the **Halsey** Ballroom.

Welcome to Portland Ice Cream Social**F199 Welcome to Portland \$5.00**

Sunday, August 23, from 6:00 p.m. to 8:00 p.m.

Join us for an informal get together in a nice little park across the street from the DoubleTree convention hotel. We've rented the park for a couple hours and will provide Haagen-Dazs ice cream for you to enjoy while you catch up with old friends and meet new friends. The Host Committee hopes you will join us for this fun event and kick off to our convention.

Non-Rail Luncheon

The Non-Rail Luncheon will take place in the Alaska Room on Wednesday, August 26, from 12:00 Noon to 2:00 p.m. Ticket sales close at 5:00 p.m. Sunday.

F495 Wild Columbia River Salmon Salad \$35.00

Grilled Salmon Over Roasted Beets with Wild Greens, Tomatoes, Chevré, Tamari Roasted Pepitas & Lemon Vinaigrette
Bakery Rolls & Butter
or

F496 Roast Beef \$35.00

With Caramelized Red Onions, Smoked Tillamook Cheddar, Crisp Cabbage Slaw, Horseradish Cream Cheese & Ripe Tomatoes on Rustic Bread Seasonal Fruit Salad · Pepperoncini

Desert & drinks included

Plated Cookies & Brownies

Freshly Brewed Villa Rey 100% Rainforest Alliance

Certified™ Coffee & Tazo Teas

Awards Banquet

The Awards Banquet will be held in the **Lloyd Center** Ballroom on Saturday, August 29, from 6:00 p.m. to 10:00 p.m. Ticket sales close at 5:00 p.m. Wednesday.

Social hour from 6:00 p.m. to 7:00 p.m.

Dinner from 7:00 p.m. to 10:00 p.m.

Our banquet speaker will be Gary Tarbox, President of the Pacific Northwest Rail Archive at Burien, Washington.

Caesar Salad

Hearts of Romaine with Garlic Croutons & Parmesan Tossed in Caesar Dressing

Choice of three Entres:**F790 Chicken Saltimbocca \$68.00**

With Mozzarella, Shaved Prosciutto, Sautéed Mushrooms, Sun Dried Tomato Pesto & Spinach Oil with Parmesan Risotto
or

F791 Poached Wild Salmon \$68.00

With Dill Pollen, Sweet Peas, Radish, Lemon Jasmine Rice & Beurre Blanc

or

F792 Fire Grilled Ribeye Steak \$68.00

Sautéed Mushrooms, Applewood Smoked Bacon, Peppered Demi-Glace Served with Oven-Fired Red Potatoes

Seasonal Vegetables

Dessert

Toffee Luscious Torte

Moist White Cake with Caramel Mousse and Topped with Chocolate Ganache, Toffee Crumbles and Slivered Almonds

LDSig/OPSig Dinner

Friday, August 28, 6:00 p.m. - 9:00 p.m. \$58.00

(Purchase your tickets at the Convention Registration Desk)

Ticket sales close at 12:00 noon, Tuesday.

This year's dinner will be held at the Widmer Brothers Brewery and Pub. The Dinner will start with a 'No-Host' bar cocktail hour at 6:00 p.m., with a choice of Sirloin steak or Salmon, with a vegetarian option, followed by our speaker, Bruce Chubb (of Sunset Valley and C/MRI fame).

The speaker at the LDSIG dinner is Dr. Bruce Chubb, whose Sunset Valley Oregon System has been widely covered in the model railroad press. The focus of the presentation is the extensive impact that the LDSIG and OPSIG played throughout the entire development of the Sunset Valley Oregon System including prototypical research, layout planning, design, construction and operational phases. The story of this evolutionary process makes for an ideal case study of a real-life example with measurable results. The overall project is monumental with 38 crew members participating in the layout's construction and operation. The resulting layout occupies 2600 sq. feet with up to 4-decks. This evolutionary story covering its research, planning, design, construction and operation with major influential contributions provided by the LDSIG and OPSIG membership, coupled with extensive inputs from the membership of five prototype Railroad Historical and Technical Societies, makes for a fascinating journey with lessons to be learned by any student of design for prototypical operation. Dr. Chubb rolled out his plan for the SVOS in 1994 at the last NMRA convention in Portland and we are delighted to have him present his story from other end of the journey!

Tickets for this event will be limited. Car Pools can be arranged through the LDSIG in the SIG Room, but the brewery is a short ride away via Portland's MAX light rail.

(Information on our website)

Mobile Friendly Web Site

In addition to the main web site, there is a second "mobile friendly" site that will display well on small screens such as smartphones and tablets. It is not a local app that is installed to your device, so it does require a network connection to the web site. This should not be too big of a problem for most people, as there will be free WiFi throughout the hotel, and many people already have a data plan for the phones.

The focus of the site is to provide you with just the facts that you need during the day, and all other extraneous information has been omitted. There are no links to the NMRA store and you can't register via the site, for example. It has been designed to be lightweight, in that there are very few pictures or other data consuming features, so it should load quickly and consume a minimum of data traffic.

The intention is to keep both sites up to date daily, so that you can be aware of last minute changes, additions, etc.

The mobile site is at: m.nmra2015.org



Door Prizes

Portland Daylight Express thanks the following donors of door prizes for our conventioners.

This year the door prizes will be awarded during the convention Banquet on Saturday evening.

Please take time to thank the donor for your prize.

A Line-Proto Power West.
 Blair Line Models
 Bowser Manufacturing
 Brass Car Sides
 Broadway Limited Imports
 Challenge Products
 Chooch Enterprises
 Control Train Components, LLC.
 High Ball Productions
 Intermountain Railway Company
 Pixel Publishing
 Proto Power West,
 RAM Track
 RR-Circuit, Inc
 Sundance Marketing, Inc.
 The HobbySmith
 Train Control Systems
 Walthers
 Westerfield Models
 Whistle Stop Trains
 Woodland Scenics Models
 Zona Tools

Tours

The Tour Desk is in the Exhibit Hall.

The tour desk will be manned from 45-minutes before each tour departure.

Tour Tickets

Pre-paid Tour Tickets have been provided in the advance registration packages.

Tickets purchased at Registration will be issued at that time.

Tour and Extra Fare tickets should be treated and valued as cash. Lost tickets will not be replaced.

Tour Departures

DO NOT ASSEMBLE AT BUSES PRIOR TO DEPARTURE. Assemble in the waiting track area, in the Exhibit Hall, prior to departure. Participants will be boarded as a group from the assembly area. Please follow instructions of your tour leaders.

Tours leave at the time designated on your ticket. You should be seated in the assembly area no less than 15 minutes prior to the tour departure. All passengers are expected to be boarding as a group no later than 5 minutes prior to the scheduled departure time. All participants should be on board their bus at departure time. There are no refunds if you miss the bus.

Tour Guides and Bus Drivers

Bus drivers are NOT AUTHORIZED to board passengers. Only tour guides are authorized to board participants. Please do not place the bus driver in the awkward position of denying your boarding request. Volunteer tour guides will be on all buses.

Tour Ticket Exchanges and Returns

Tour fees will be fully refunded for a cancelled registration only if the tour has been sold out or the tickets have been resold. Tour fees will not be refunded to convention registrants at the convention but will be issued within 30 days of the end of the convention.

A bulletin board will be available in the Tour Desk area for use by registrants attempting to sell unneeded tickets. The Tour Desk will assist in coordinating the resale of tours for which all tickets have been sold. Your convention badge will be required at the time of purchase or exchange.

Tour tickets may be turned in to Registration and traded for other tour tickets until 24 hours before the tour is scheduled to depart. No refunds are provided for tours of lesser value. Tour tickets may be traded for tours of greater value with the registrant paying the difference. All trades shall be subject to a space available basis for the desired tour at the time of trade.

Tour Cancellations

Tour tickets for cancelled tours may be exchanged for other tours, subject to availability, so long as the tour ticket is surrendered at least 24 hours prior to the tour departure, and based on the value of the tour. Tour fees will be refunded to convention registrants within 30 days after the convention in case of a tour cancellation by the convention.

Photo, Video and Recording Devices

All tour hosts have the right to limit the use of recording devices. Please ask before taking pictures.

Drop-offs on Returns from Tours

Our contract with the transport provider requires return of ALL passengers to the point of departure. No exceptions.

Schedule and Tour Changes

Every effort has been made to provide tours as advertised. However, cancellations, time changes and layout destinations can change due to unforeseen circumstances. Therefore, the PDX 2015 Convention Committee reserves the right to change scheduled times, tour content and to cancel activities subject to the needs of our hosts and participants. Please check with the Tour Desk for any changes that may occur.

Layout Tours

We are pleased to present a large and diverse selection of layouts that will include all popular scales, gauges and themes. Home layouts, club layouts and garden railroads will be represented. Most of the layouts have stunning scenery, equipment and operations. Many have been featured in model railroad publications. Tours are scheduled to run in the morning, afternoon and evening. Some tours run all day.

Layout Tour Etiquette

The following is a short list of rules of conduct that we ask people on layout tours to observe:

- The right front seats on the bus are always reserved for the bus captain/tour leader.
- All layouts are NO SMOKING...period. If you must smoke please do so outside. Move away from other visitors and please don't discard your butts.
- Never pick up someone else's model.
- Never lean on a layout.
- Don't be so quick to point out a "better way".
- While on tour, don't dominate the host's time, or the best viewing areas. Others may have questions or comments and want to see the best areas too.
- Don't touch, scratch, feel, or move anything. If you lack self control, put your hands in your pockets. If you are curious about something, simply ask your host. Respect the host's property, both inside and outside his/her home.

- If you wish to take photos or videos of the layout, ask the host for permission. It is rarely refused, but if the host is reluctant, put the camera away. Do not allow your filming to monopolize the best viewing areas or interfere with others' views and movement.
- Tripods, large format cameras and bags of any kind are prohibited in layout rooms.
- Please thank your layout host as you depart.

Tours may run late in returning so please be advised not to schedule tours without a break in between them. Refunds are not given for a missed tour due to return delays.

Layout Tour List

The list below shows the schedule for layout tours. Layouts are described in tour order. Please check with the Tour Desk for last minute changes to the tours. Layout owners are listed alphabetically overleaf.

L131 Canby / Brooks, Oregon

Sunday 9:30 a.m. to 4:30 p.m.

~~**L232 Woodland / Kelso / Kalama, Washington**~~

Monday 8:00 a.m. to 4:00 p.m.

~~**L233 Vancouver, Washington**~~

Monday 7:40 a.m. to 12:00 p.m.

L256 Vancouver, Washington

Monday 7:40 a.m. to 12:40 p.m.

L234 Central Portland Metro

Monday 7:30 a.m. to 12:00 p.m.

L235 Washougal / Camas, Washington

Monday 1:00 p.m. to 6:00 p.m.

L236 Tualatin / Tigard, Oregon

Monday 1:30 p.m. to 5:30 p.m.

~~**L337 Beaverton, Oregon**~~

Tuesday 8:00 a.m. to 12:00 p.m.

L338 Eugene, Oregon

Tuesday 7:30 a.m. to 4:00 p.m.

L339 Milwaukie / Oak Grove, Oregon

Tuesday 12:40 p.m. to 5:00 p.m.

L340 McMinnville / Sherwood, Oregon

Tuesday 1:00 p.m. to 7:00 p.m.

L341 Troutdale / Corbett, Oregon

Tuesday 1:20 p.m. to 6:00 p.m.

L351 Northwest Portland

Tuesday 7:45 a.m. to 12:00 p.m.

L442 Rickreall / Dallas / Corvallis, Oregon

Wednesday 7:30 a.m. to 4:00 p.m.

L443 Southwest Portland

Wednesday 1:10 p.m. to 5:00 p.m.

L444 Northwest Vancouver, Washington

Wednesday 7:45 a.m. to 12:00 p.m.

L445 LaCenter / Battle Ground, Washington

Wednesday 1:00 p.m. to 6:00 p.m.

L547 Woodburn / Keizer, Oregon

Thursday 7:45 a.m. to 2:00 p.m.

L548 Hillsboro / Cornelius, Oregon

Thursday 8:00 a.m. to 2:00 p.m.

~~**L552 Chehalis / Olympia, Washington**~~

Thursday 7:30 a.m. to 6:00 p.m.

L649 Portland Area Clubs

Friday 4:00 p.m. to 10:00 p.m.

L753 Deer Island, Oregon

Saturday 7:30 a.m. to 12:30 p.m.

L754 Deer Island, Oregon

Saturday 1:00 p.m. to 6:00 p.m.

Policy on use of Private Autos on Convention Activities

The NMRA does not use or sanction the use of personal automobile transportation at the convention. Use of personal transportation for convention activities is at the user's own risk. The NMRA only sponsors official tours with commercial transportation.

Convention attendees shall have no right of action against NMRA, its Officers, Directors, Committee Members, and others working with NMRA or the assigns or heirs of the NMRA, its Officers, Directors, Committee Members and others for any injury or damages sustained as a result of, use of or arising from the use of a form of transportation not sponsored by the NMRA. Participants expressly release, forever discharge, and covenant not to sue NMRA, its Officers, Directors, Committee Members, and others working with NMRA or their assigns and heirs for any injury or damages sustained as a result of, use of or arising from the use of a form of transportation not sponsored by the NMRA.

Participants acknowledge and agree that neither NMRA, nor its Officers, Directors, Committee Members, nor others working with NMRA or their assigns or heirs in providing this convention, nor any of its agents, contractors, employees or representatives, have made any representations, promises, agreements or guarantees of any kind or character whatsoever, whether express or implied, oral or written, past, present or future, concerning or with respect to the use of personal transportation for any convention event or any Special Interest Group event.

Layout Owner - Alphabetical Club or Surname ***Club names in italics***

Description is within the tour noted to the left of owner name.

L341	Ross Ames
L445	Lee Anderson
L338	<i>Atlantic & Pacific N-gineers</i>
L234	Bruce Barney
L235	Glen Baunsgard
L443	<i>Beaverton Railroad Club</i>
L341	Jay Becker III
L337	Hal Beigley
L340	Ed Bohm
L442	Jerry Boudreaux
L232	Bill Brant
L351	Len Bruening
L552	Scott Buckley
L236	Rob Carey
L443	<i>Catlin Gable Club</i>
L236	Joe Chesney
L338	David Clune
L234	Bill Collet
L649	<i>Columbia Gorge Model Railroad Club</i>
L234	<i>Columbia River N Scale</i>
L548	Charlie Comstock
L442	<i>Corvallis Society of Model Engineers</i>
L445	David Dansky
L547	John Davis
L340	Bill Decker
L337	Bill Derville
L351	Bill Dippert, MMR
L236	Rick Ernst
L552	Brian Ferris
L445	Bill Fleisher
L234	Peter Ford
L547	Joe Fugate

Layout Owner - Alphabetical Club or Surname
Club names in italics

L339	Tom & Betty Gaps
L256	Dick Gemeinhardt
L444	Dick Gerhrke
L351	Jon Harrison
L445	Wayne Hill
L547	Brian Humphries
L338	Jeff Johnston
L235	Larry Kennedy
L338	<i>Lane Society of Model Railroaders</i>
L341	Gary Lee
L552	<i>Lewis County Model Railroad Club</i>
L256	<i>Longview, Kelso, Rainier Railroad Club</i>
L256	Greg Maxwell
L235	Mike McGinley
L340	Tom Miller
L649	<i>Mt. Hood Model Railroad Club</i>
L338	Walter Mulford
L442	Gene Neville
L233	Ron Nierenberg
L753	<i>Northwest logging demo</i>
L131	<i>Pacific Northwest Live Steamers</i>
L442	<i>Polk Station Club</i>
L443	<i>Portland Area N Track Club</i>
L443	Shannon Pratt
L339	Jim Reardon, MMR
L552	Chuck Ricketts
L337	Dennis Rose
L232	Jeff Sargeant
L547	Ralph Schaad
L339	Hank Schmidt
L442	Stan Schmidt
L256	<i>Southwest Washington Model Railroad Club</i>
L351	Larry Staver
L341	Warner Swarner
L548	Shaun Toman
L339	Lee Touer
L548	Pete Vassler
L548	Allan Warrior
L444	Bill Wheeler
L444	Gary Wiggins
L649	<i>Willamette Model Railroad Club</i>
L340	David Willis
L131	<i>Willow Creek Railroad</i>
L552	Greg Wright, MMR
L235	Bill Zickert

Accessibility

Layouts listed include accessibility symbols where appropriate.



Layout is accessible by wheel chair, no stairs, standard width hallways, moderate slope ramps.



Layout is accessible with walking frame, some steps.



Layout is accessible by walking stick.

Layouts on tour without symbol include accessibility narrative for you to make your own judgment.

Rail and Industrial tours usually involve considerable walking, some climbing of stairs, occasionally uneven surfaces.

The DoubleTree Hotel and the Portland Exposition Center are completely accessible.

Layout Tours

Layout tour descriptions.

The header for each layout includes Scale, owner, name of layout, area, scenery percentage, era and accessibility issues.

Layout Tours Sunday, Aug. 23

Canby / Brooks, Oregon

L131 9:30 a.m.-4:30 p.m. (Box Lunch) \$50.00

1-1/2" Pacific Northwest Live Steamers

Shady Dell Live Steam

Outdoor



The train park was founded in 1954 by Harry Harvey, who had a dream to provide a place where families could go to ride and learn about trains. When he died he left the park, to the Pacific Northwest Live Steamers. The club acquired the other three acres over time for expansion. Today the park features 4,200 feet of 7½-inch track that loops around a picnic area.

1-1/2" Willow Creek Railroad

Steam and Diesels

Outdoor



and enjoy outdoor miniature railroading. Our steam and diesel powered trains are 1:8 scale replicas - large enough for the whole family to ride! In 2001 we completed the track portion of our new plan to enlarge our track to over 5000 feet.

Layout Tours Monday, Aug. 24

Woodland / Kelso / Kalama, Washington

L232 8:00 a.m.-4:00 p.m. \$50.00

N Jeff Sargeant

Great Northern, SP&S, Teal Lumber R

14 x 18 65% Mid 1950's

This steam-to-diesel transition layout features an MRC DCC controller features mounted in the northwest. Scenes include miniature mines, camping, farming, snow, and multi-figures. There is a separate custom-painted log with mill town, sawmill and pond, plus a fully- logging camp. Several automations and sound are also installed around the layout.

O Bill Brant Freelance 1

32 x 32 100% 1950's to 60's

The layout is three-rail with is the room. There are three towns and two areas. The control system is Lionel TMCC. can be operated at the same time. Trains through a relay system. There are 20 engine Diesel and Electric. About 280 freight cars and 35 passenger cars which are all on the layout.

Vancouver, Washington Monday, Aug. 24

L233 7:40 a.m.-Noon \$25.00

O Ron Nierenberg Freelance 2

Lionel 1500 sq ft 100%

Narrow aisles, no purses, baggage packs

Control method is mon DCC and MTH DCS. 1500-square foot layout of O gauge trains (Lionel). 26 isolated loop trains. Almost all trains are modern 1990's. Scenery is divided between modern local Pacific Northwest, and ancient and modern Israel.

Vancouver, Washington Monday, Aug. 24

L256 7:40 a.m.-12:40 p.m. \$25.00

HO Southwest Washington Model Railroad Club

Freelance - Fort Vancouver Terminal

13 x 35, 20 x 6 98% 1930 to present

The NCE DCC controlled layout includes industrial, logging



and main line freight and passenger operations. An industrial switching layout is in an adjoining space. The era depends on the members that are operating. The logging operations include a branch with truck reload and spar tree high-line rig. Scenery reflects the Pacific Northwest. Diesel and steam facilities, including turntable, are part of the main yard.

HO Greg Maxwell
M-K-T Sherman Branch
2 x 22 95% 1957



My urban DC switching layout represents the southern terminal of the M-K-T's Sherman branch from Dennison. A crew of three operates the local that switches 12 industries and two interchanges. The layout features code 70 and 55 track. Small and large industries are nicely modeled in this northern Texas setting.

HO Dick Gemeinhardt
Roaring Western Gorge
20 x 64 60% 1950's to 80's



30" door width – descending driveway

Long 60-foot unit trains are the norm here on this layout, plus long passenger trains. Highlights include a 24 foot model circus, airport, winter sports area, large grain elevator, campground, cemetery, and town scenes. And a 20-foot 6-track passenger station, plus stub ended business car tracks and a passenger train car wash. Staging area uses a 16-foot long 16-track yard. Bring your video and photo cameras! Various versions of the Roaring Western Gorge RR have existed since the 1970's- the current version was once part of a large modular RR club, but is now permanently installed in the Gemeinhardt basement.

HO Longview, Kelso, Rainier Railroad Club
Longview, Kelso, Rainier Railroad
12 x 23 100% Late 70's - 80's



Radio DC and MRC DCC. Well established portable sectional club layout with scenery changing lift outs. Many commercial and kit bashed structures, carved cliffs, grain silos and other industries, plus a neat farmstead. Also a 10-foot staging yard, branch line featuring tourist train and small town industries. 'U' shape, double track oval mainline with yard, local industries, and highline branch line. Hand-painted backdrops with foam based textured mountain scenery means bring your video and photo cameras! Visitors will also see 3 more layouts here in HO, Lionel, and N scale.

Central Portland Metro Monday, Aug. 24

L234 7:30 a.m.-Noon \$25.00

N Columbia River N Scale

Union Pacific and Burlington Northern

16 x 26 + 13 x 13 98 % 1970 - Present 24 stairs

This is a Digitrax DCC, and signaled layout with an automated dispatcher's panel using JMR Panelpro. This N-Scale layout is a model of specific spots along the Columbia River Gorge depicting the rails on both sides of the river, OR and WA. We have tried to capture the basalt rock geology of the river and industrial areas along the way from eastern Portland to The Dalles and beyond. It is a point to point operation from two yards on either end servicing lumber, grain, fruit, rock crushing, and typical PNW industries. This layout is in the basement of The Hobbysmith Train shop. See the article in June 2015 NMRA Magazine.

O Bill Collet
Southern Pacific Shasta Division

26 x 36 100% 1950's 10 stairs

Layout is 2-rail, is complete and runs on DCC using NCE control system. Analog operation is supported. Mostly steam with some early diesels. Modeled after Dunsmuir and the area north of Dunsmuir on the SP's Shasta Division. Locomo-

tives are all brass from various manufacturers. Rolling stock is either brass or kit built and all locomotives and rolling stock are painted.

HO Bruce Barney
Arrow Lake & Western

11 x 38 50%+ late1960's to early 1970's 13 steps
Southern British Columbia, Canada Semi-Freelance Canadian Pacific two level shelf layout loosely based on southern BC. GN/BN and SP transfers. Features include the Slocan Car Ferry that moves from the first level to the second level via a linear actuator. Many 3D Printed features including the barge. RFID car forwarding. Ring Engineering RailPro control. Actual SP Signal in the backyard.

HO Peter Ford
Grand Rapids Terminal



20 x 24 40% 1959 access through garage
The Grand Rapids Terminal is a switching railroad set in Michigan, 1959. The PRR, C&O and NYC share trackage into a Union Depot near downtown, just north of Hughart yard. Furniture and auto industries dominate the economy. CVP DCC controls an 80 foot main line on this around the walls walkaround layout with hidden garage staging.

**Washougal / Camas, Washington Monday, Aug. 24
L235 1:00 p.m.-6:00 p.m. \$25.00**

HO Glen Baungard

Tutts, Clump & Bucklebury Railroad

11 x 32 90% 1950's Stairs 16

DCC (NCE) layout focus on NW logging and saw mill, major city elevated RR station, round house with operating turntable, street car system uniting local villages, farming and dairy, wrecking yard, coal distribution center and mining etc. The Z scale (Märklin) a separate award winning layout 2x3 and 100% scenery.

HO Mike McGinley
Southwestern Pacific Railroad

18 x 22 100% 1951 to 2006 Narrow aisle

Southwestern Pacific Railroad is a completely sceniced western theme freelance single track, in a detached garage along the Washougal River. Era-shifting changeable building modules, block signals, full surround backdrop, on a western trunk line with UP and BNSF trackage rights and a rich history of past SP and Santa Fe operations. See the article in December 2014 NMRA Magazine.

HO Larry Kennedy
Freelance 3

40 x 41 50% 1950

Theme is GN over electrified division at Stevens Pass, with steam at both ends. It has approx. 1000 ft. of hand laid rail and DCC as power source. It is a continuous loop with 1% grades from the West and 2% from the East. See the article in January 2015 NMRA Magazine.

HO Bill Zickert
Montana Rail Link

12 x 36 100% Present

Duck under entry

It is modeled after the Helena, Montana area. DC powered with three levels, horseshoe grades at 2%, 4-5engines per train because of the grades and over 40 car trains. Some trains use DPU's on the back and some are mid-train. Limited to 5 people at a time.



Tualatin / Tigard, Oregon Monday, Aug. 24**L236 1:30 p.m.-5:30 p.m.****\$25.00**

N Rob Carey

DRGW Tennessee Pass & Royal Gorge

13 x 24, 11 x 10 & 3 x 15 75% 1974 Duck Under

DCC controlled, detected, signaled, and dispatched from computer dispatching panel. Double deck layout with 7 scale miles of mainline track. Closely follows condensed prototype that includes Pueblo to Royal Gorge, Malta to Minturn, Monarch Branch, and La Junta, CO. Scratch and kitbashed structures. Beautiful fall scenery. Featured in N Scale Railroading, May-June 2009 and Model Railroad Hobbyist, June 2013.



N Rick Ernst

North Bank Road

24 x 40 60% 1950 14 Stairs

The North Bank Road represents the Spokane, Portland & Seattle's first division from Vancouver to Wishram, WA. with two branch lines. The layout is set in the beautiful Columbia Gorge. This is a double deck, around the walls layout covering 550 Sq. Ft.

G Joe Chesney

Underground Railroad Basement & outdoor

100% Lower & Upper Entrance

This layout has been dubbed the Underground RR since Joe dug out his basement to provide space. LGB track is used and much of the rolling stock is LGB. An outside section has been added on both sides of the house. There is a large display of scratch built and LGB items.

**Layout Tours Tuesday, Aug. 25****Beaverton, Oregon****L337 8:00 a.m.-Noon****\$25.00**

#1 Dennis Rose

Blueberry Mt. Railroad Outdoor

The Blueberry Mountain Railroad was created fifteen years ago, running under mature bushes that gave the railroad its name. The layout runs through two tunnels, under a "mountain" which is a sawmill, a town and farm, each with scratch built wood and stone structures. 230 feet of track with miniature trees, bushes and ground covers add to the realism.



G Hal Beigley

Camp Creek Railroad

16 x 60 + 40 x 50 Outdoor Freelance 3 S

Camp Creek RR was started in 2001. The large Scotch pine trees. It took less than a year to realize this location was a bad idea. The layout has a dripping sap and a lot of pine needles. The layout has to go. The roadbed was reconfigured to run through one of the stumps. Big hit! Opening allowed more natural light, was great for the surrounding existing plants and adding stepables (groundcover). The railroad was expanded in 2012. 390 linear feet of track with two spurs.



F Bill Derville

Colorado and Southern

20 x 115 + 16 x 45 Outdoor

Freelance Bathroom available

Battery and NCE DCC power. Outdoor loop railroad single track mainline, with two sidings. Northern Division 350' climbs at 2% grade to summit at top of berm. Three tunnels total 900 feet over and pond.

Southern Division 1/2 mile industrial loop. Ten track classification yard with large turntable, scratch built 7 stall roundhouse. Complete engine facilities. Built for operations.



Eugene, Oregon Tuesday, Aug. 25

L338 7:30 a.m.-4:00 p.m. (Box Lunch) \$50.00

N Atlantic & Pacific N-gineers

50' x 24' All Eras

N-trak layout using Digitrax DCC operating equipment from all eras, steam or diesel.

HO Walter Mulford

Occidental Northern

12 x 30 80% 1956 Remote wireless DC control.

Set in Central Oregon running north/south between Southern Canada and Northern California during the 1950's, specifically 1956. All motive power is first generation diesel. Passenger service provided by Budd RDC cars. Mainline and branch line industrial operation.



On3 David Clune

Cascade County Narrow Gauge

16 x 31 95% 1920's 3 Stairs - narrow

Based on the Nevada County Narrow Gauge. The railroad is set in the 1925 to 1935 time frame in Southwestern Oregon from Cascade to Murphy. Five locomotives, either 2-8-0's, 2-6-0's, and a 4-4-0 provide the power. There are about 80 freight and 5 passenger cars that provide the rolling stock. The railroad runs with one dispatcher and 5 operators, on modified TWC and station phones.

HO Jeff Johnston

Sugar Pine Lumber

9 x 24 None 1927

This Lenz DCC-powered Sugar Pine Lumber Company/Minarets & Western Railway prototype-based layout models the company's woods-to-mill and mainline interchange logging company operations circa September 1927. It features double deck construction, dual staging yards, a helix, code 70 and 55 track. The layout is all steam with some sound units.

HO Lane Society of Model Railroaders

Eugene to Klamath Falls

25 x 75 75% No era

LSMRR is a point to point single track main with passing sidings and reversing loops on each end. It is a bi-level permanent layout with a 2% grade. Digitrax DCC is used. NMRI Signal system. Dispatcher in separate room with layout monitor.



Milwaukie / Oak Grove, Oregon Tuesday, Aug. 25

L339 12:40 p.m.-5:00 p.m. \$25.00

G 1:20 Tom & Betty Gaps

Lone Pine Western

Backyard outdoor 1880's to 1920

All R/C battery power. 80' x 36' layout through and around 7' mountain range across back yard, 600'+ of track, 400' of mainline track, 7 tunnels - one is 40' long, 70' stream with 3 waterfalls and 4 bridges. The LP&W is a single track branch line connecting the mythical transcontinental junction at Lone Pine with the mines in the Lone Pine Mountains. The line maintains a 1% to 1-1/2% grade by following the Clear Water River into the mountains and with the use of numerous tunnels. This railroad was featured in the June-2014 issue of Garden Railways Magazine.



On3 Jim Reardon, MMR

Rio Grande Southern

18 x 34 95% 40's to 60's Stairs/Duck under

Scratch Building is layout's emphasis, including major structures, rolling stock and track work. Scenes depicting the D&RGW and RGS for 1940's & 1950's are featured with PFM sound and interactive animations.

HO Lee Touer



Freelance 4

14 x 24 20% 60's to 70's Narrow Aisle

This is a DC layout fashioned after a 60's idyllic small town and countryside with 1-coal, 1-oil, 1-freight and 1-passenger loop. There is a large refinery area, an industrial district, town center, and country side.

N Hank Schmidt

Freelance Northwest

12 x 12 60% 1950's to 1965

The Idaho, Great Basin & Pacific is a fictional north-south road that runs from Idaho to Southern California. This N-scale 12' x 12' layout depicts the end of the transition era between 1950-1965. The layout is DCC and features "bender board" road bed spline and carved foam scenery with a hard shell cap. The landscape is generic western mountain scenery with sweeping curves designed for passenger train operation. Scenery is well along. Layout includes award winning modular section.

McMinnville / Sherwood, Oregon Tuesday, Aug. 25**L340 1:00 p.m.-7:00 p.m.****\$28.00**

HO Ed Bohm



Tualatin Valley & Western

35 x 85 + 14 x 16 90% 1940 to 1950

This is a DCC layout depicting the Southern Pacific from Eugene to Klamath Falls with emphasis on the massive mill at West Fir Logging. The mainline has a prototypical grade of 2% and climbs two and half feet in elevations. Enjoy the end of steam and first generation diesel power. (Square footage-2600)

Cascade Southern This layout is a DC layout created by the late Robert Bernard. It is 100% scenic and 99% scratch built. The envisioned layout is a connecting road between the NP, SP&S, and SP, with lots of industry, logging and mine operations. This layout was featured in the last convention in Portland. (Square footage-200)

HO Bill Decker



Southern Pacific Cascade Line

2400 sq ft None 1954 to 1984 Ramp entry

Upper layout operating positions use platforms with stairs. 48" deck

NCE DCC radio throttle control is used. The Espee Cascade Line models SP's Natron Cutoff from a Willamette Valley base at Eugene up to Cascade Summit and the original division boundary at Crescent Lake (upper staging). Local valley freight operations include Eugene, Springfield and Oakridge. Manned mid-train helpers are the focus of the historic 1.8% mountain climb. The railroad features 20-foot long sidings. The railroad is designed for operations by a minimum crew of six with a normal crew of 12-15 operators. A CTC signal and control system is under development.

HO David Willis

Oregon Pacific

12 x 27 100% Mid 1960's Narrow Aisle

The Oregon Pacific is a DC layout modeling the line from the mid- Willamette Valley to Yaquina Bay, built in the 1880's and still running. The layout features four towns and includes Beaver State University (a.k.a. O.S.U.) where the builder taught for 32 years.

F Tom Miller



D&RGW 1940

45 x 90 11,000 sq ft Indoor/Outdoor

One of the most detailed indoor F scale railroads in the world. 45 x 90 ft. 100% complete. NCE DCC controlled with Phoenix sound. 24 hour lighting effects and sound effects.

Modeled after the D&RGW and RGS in the 1940's.

Out door Live Steam RR:

Known around the world for its quality and ingenuity, this 11,000ft long railroad features a 410ft long 30ft high bridge, plus a 325ft long tunnel. Home to a 1/1/2" scale Big Boy and 2 1/2" scale K-36 locomotive plus dozens of pieces of scale rolling stock.

Troutdale / Corbett, Oregon Tuesday, Aug. 25

L341 1:20 p.m.-6:00 p.m. \$26.00

HO Jay Becker III

Tillamook, Bay City & Garibaldi

18 x 24 100% 1980 on High deck, Narrow aisle
Digitrax DCC control. This 500 square-foot switching layout features three lines working together to service customers. A large paper mill, small industrial park and several industries are served. Staging and a car float provide outside world connections.

1/2" Scale #1 Gauge Gary Lee

Baker & Grande Ronde



60 x 185 All miniature 1880

This must see layout has hand-laid track and scratch built buildings, a 6' H x 20' L curved trestle with a Howe Truss center span. The layout features RC/ battery operation with sound. The mainline runs along a scale river. This model RR features miniature vegetation and finely trimmed Pine trees. The layout is point-to-point in design/ operation. The Baker & Grande Ronde RR was featured in the April, 2013 Garden Railways magazine. There is also a shop, with railroad yard and construction space.

G Warner Swarner

Bearspaw Southern

1930 to 1960



100 x 100 50% indoor/outside Also, narrow crawl space with stairs Entirely radio control, battery power.

This large scale pike of over 1200' track begins in a landscaped front yard with a waterfall and miniature trees. The line circles entirely around the home, through mountains, by ponds, along cedar fences and under a real vineyard before entering the basement. Multiple types of construction methods for large scale railroads are visible on this railroad which has been under development for about five years. The excavated basement has been lined with stone block and valence lighted. Scenery techniques include extruded cast foam as well as natural rock. Many scratch built and kit-bashed structures are in place along the line. The outdoor portion is viewable from sidewalks, garden path and covered porches.

HOn3 Ross Ames

PC&N Railway

10 x 10 50% 1880-1890



Lenz DCC control and 90% hand laid track.

A freelance HOn3 layout set on the Oregon Coast. Running from the Port in Pacific City over the Coast Range Mountains to the Interchange town of Equinox in the Willamette Valley. A shot of the PC&N Ry is featured on the cover of White River Productions 2014 HOn3 Annual.

Northwest Portland Tuesday, Aug. 25

L351 7:45 a.m.-Noon \$25.00

G + HO Bill Dippert, MMR

DRGW - G; C and E - HO

20 x 40 HO 1000' G 50%+outdoor Modern 1950



The freelance HO layout uses DC power with variable transformers. This all Diesel layout is modeling the Crownville and Eastern Railroad. There are steam engines on display just like today. The outdoor layout runs from the front yard to the back and has a major yard. There is nearly 1000' of track and a second yard which is in the basement.

HO Len Bruening

Batline

18 x 18 0% 1950 2 steps

The Batline Railroad is a point to point, around the walls helix with 2 or 3 decks and a middle peninsula. It stresses forwarding of cars and uses car cards in 3-bin boxes. It has wide aisles and drop-ins spanning the entrance door.



HO Jon Harrison

Cajon Pass

25 x 60 10% 1950

This layout models the 1950 Cajon Pass Summit area in great detail, nearly uncompressed, as well as part of the grade that leads to it. Hand laid Central Valley track with 60" minimum radius is scaled from Santa Fe blueprints and scenery is scaled from USGS topo maps.



#1 gauge Larry Staver

Staver Locomotive

40 x 165 0% Live Steam Indoor and outdoor

An indoor #1 gauge layout, in a large industrial space, specifically built to run live steam locomotives. Staver Locomotive track plan is a folded dog bone with no scenery. There is room to walk with your train around the entire layout. This is necessary with live steam, since hands-on control is necessary at all times. The area inside the layout is set up with work stations for the preparation of steam engines. There is no electricity to the rails, so battery power is the other option for running. The trackage is mostly a single track mainline with sidings.



Layout Tours Wednesday, Aug. 26

Rickreall / Dallas / Corvallis, Oregon

L442 7:30 a.m.-4:00 p.m. (Box Lunch) \$50.00

HO Polk Station Club

Willamette Western

30 x 30 + 30 x 20 92% Pre 1970's

Stair chair, 13 stairs

We're a freelance Digitrax DCC HO layout with double dog-bone style mains looping thru mountains, valleys, towns, across large steel bridge, trestles, peninsulas, and main yards. An industrial line loops off main yard thru bay-front town, industrial yard, under layout, to center mining area and then back into bay yard. Lots of hidden track, tunnels, reverses loops, to keep engineers on their toes. Our second room has two yards for train set up, holding and main line through track. The layout is really fresh, with our newly custom painted backdrops, saw mill, bay-front town, A-frame cabins, fishing lakes, diners, pipe plant, log reload station, metal scrap yard, town's cemetery, mining, RV park, farming, wild-life viewing and kids playing on operating merry-go-round.



HO Jerry Boudreaux

Div. of ATSF

30 x 40 50% 1967

This is a Digitrax controlled, 650' double and single track mainline with 40-50 car freights rolling across the spectacular mountains and canyons of Northern Arizona in 1967. Two levels at 43" and 56" provide brisk mainline action, a 200' helper district and lots of switching in a carpeted depot with Air Conditioning.



HO Stan Schmidt

Southern Pacific in Oregon

36 x 35 90% 1940's to 60's

Operated by Digitrax DCC. Two level railroad is in a 36x48 building, with a double helix in a separate room. We have steam & diesel, some sound. This railroad depicts SP and its branch lines from Eugene to Klamath Falls, East & West side branches to Portland, and a branch to Coos Bay, with a



lot of harbor scenes. An extra feature is a switchback with logging and a large sawmill.

HO Gene Neville



Great Basin & Pacific

30 x 30 25% 1952 gravel and grass areas to cross Digitrax DCC. The Great Basin and Pacific is a freelance version of the Southern Pacific's Modoc Line, between Klamath Falls, Oregon and Wendel, California. Year is 1952, after the Southern Pacific assumed control of the GB&P. S.P. steam locomotives are working out their last years on this line.

HO Corvallis Society of Model Engineers



Cascade Pacific

25 x 60 20% 1950's

Digitrax DCC. Loosely based on the line from Albany to Toledo, OR, the Cascade Pacific Railroad moved freight from the port at Toledo to Albany for interchange with Southern Pacific. The old layout was demolished in 2011. We are in our third year of construction, with everything from bare plywood to completed scenes.

Southwest Portland Wednesday, Aug. 26

L443 1:10 p.m.-5:00 p.m.

\$25.00

N Portland Area N Track Club

Dairyville Pacific



24 x 33 100%

Located at Alpenrose Dairy, Portland Area N-Trak is a 100% NMRA member, modular N-Scale Club. We operate year-round at all Alpenrose public events. We are primarily a display layout, and are working toward initiating Operations Sessions in the near future. We have a 75% Digitrax DCC, 25% DC layout, and use the N-Trak standards for our modules.

HO/HOn3 Beaverton Railroad Club



Western Oregon Branch Line

10 x 35 + 15 x 20 95% 1950's

This modular layout has found a permanent location in the SW Portland Alpenrose Dairy. See standard HO, HO European, HOn3, OO, and Japanese 1/80 scale HO. There are two towns and a Carnival with several rides; all served by a three track mainline with a spiral that opens to several levels. There is also a fully painted backdrop.

HO Catlin Gable Club

Freelance 5

16 x 28 50% Steps, incline, narrow

This layout was built with the idea of using it as a teaching tool as well as for fun for the students at our school. The layout is a double mainline most of the way round with a main yard, steam facility with roundhouse, diesel facility, 2 passenger depots, and a mountain division that is under construction.

#1 Gauge Shannon Pratt



Partytown and Farmdale Railroad

12 x 50 100%

The Partytown and Farmdale Railroad is a privately-owned (formerly Southern Pacific branch) freight and passenger line running from Gotham City on the East end to its terminus in Vineyard Village in the West. The visible portion is about 12' x 50', #1 gauge (1/32), all indoors, automated, with lots of lights and animation. Most of the rolling stock was purchased from domestic lines such as Southern Pacific and Union Pacific, with some imported from Germany.

Northwest Vancouver, Washington

Wednesday, Aug. 26

L444 7:45 a.m.-Noon

\$25.00

HO Bill Wheeler



Cascade Timber Railroad

12 x 24 90% 1945 to 1955 High Deck, narrow aisle

NCE DCC controlled Cascade Timber explores Pacific Northwest logging operations in 1945-55. Two logging camps/reloads are connected to a mill complex with log pond and SP&S/GN mainline. Branch lines extend to a port area and a grain elevator in wheat country. Operations include steam and diesel.

HO Gary Wiggins

Freelance 6

16 x 17 + 4 x 14 70% Post War High Deck – 50"

DC 2.5 years into construction fully functional, scenery mostly completed. Yard area includes roundhouse and other facilities mainlines: 4 continuous loops with passing sidings, 2 loops are east-west at an average height of 50", minimum radius of 48", one loop contains grades to achieve a height of 55", the remaining loop runs from this 55" height to 56" with minor grades. Minimum radius of these last two loops 40" branch-line: a continuous loop around a peninsula containing a mill town and saw mill (still in development) scenery is mostly mountainous with tunnels & bridges.



O Dick Gerhrke

Great Northern

12 x 27 97% 1950's

14 stairs, access through back basement door

Hi Rail TMCC & Conventional, Northend features mountain scenery with water fall, lake, tunnels. Central features suburban station, houses, business, theater, shopping. South end features city with main street and larger structures and industrial area. Some older engines converted from conventional to ERR Cruise Commander.



LaCenter / Battle Ground, Washington

Wednesday, Aug. 26

L445 1:00 p.m.-6:00 p.m.

\$25.00

O David Dansky

Dansky and Whipple Creek

24 x 16 Freelance

TMCC run and conventional Lionel. O, standard, monorail, 2 7/8", OO gauges. Usually operate 5 trains at one time. See layout in TM's Great Layouts #4. Tin plate fantasy is the theme. Not serious about scale. 1,000+ trains on display: Lionel, American Flyer, Dorfman, Ives, Overland Flyer, Marx, Hornby, Bassett Lowke, Paya, Märklin, JEP, Electoy, Voltamp, Marasceau, Ferris, Buddy-L, Non-Pareil, Hoge, Dominion Flyer, Unique and more.



HO Wayne Hill

W. Hill and Colorado Midland

15 x 24 95% 1900 to 1918 Narrow Aisle-13 stairs

Easy DCC. This Rocky Mt. Logging Railroad has dramatic rock castings from 24" off the floor to over 7ft. high with trees from 20" to 2" tall going up into the "Sawatch Mt. Range", producing a realistic forced perspective of high elevations and great distances, giving breath taking views of a Rocky Mountains Railroad landscape. Finely detailed scenes of a 1920 saw mill, spar pole logging, town, engine yard, ore stamp mill, and a cattle ranch and more.

On3 Bill Fleisher

D&RGW and C&S

28 x 34 75% 1950 to 1968

O/On3. This layout models the D&RGW from Alamosa to Durango, Colorado with hidden storage for the Silverton and Farmington Branches. The period is 1950 to 1968. The layout, started in April of 1988, was originally located in Concord, CA, and was moved to Vancouver, WA in September 2010. All of the track work is in and working with NCE-DCC.



HO Lee Anderson
UP & RB Anderson & Son Logging
20 x 40 100% 1940 - present



This layout is freelance, controlled by NCE DCC. Main line and yard is mostly UP with some SP&S & GN. Main line is a dogbone with 290' of track. There is a large logging operation with 285' of track from woods to mill. See the article in February 2015 NMRA Magazine.

Layout Tours Thursday, Aug. 27

Woodburn / Keizer, Oregon

L547 7:45 a.m.-2:00 p.m. (Box Lunch) \$40.00

O John Davis
Union Pacific & Southern Pacific
28 x 35 10% 1950's to 1960's



"O" Scale layout under construction. The layout is two-level, control is NCE wireless. It is both steam and diesel. Access is ground level [no stairs], with good walk around space for viewing.

HO Joe Fugate
Siskiyou Line

25 x 50 50% 1980's Raised floor and steps
HO Multi-deck mushroom design depicting the Southern Pacific Siskiyou Line of southern Oregon in the 1980s. Uses NCE wireless DCC for control, and covers the prototype route from Eugene, OR to the massive wood products facility in Dillard, OR. Also includes a freelanced version of the Coos Bay coast branch as it might-have-been into Roseburg, OR instead of Eugene.

HO Brian Humphries
Freelance 7



12 x 24 50% Present day
A compact layout that represents the West Coast to East Coast on a flat, modern layout with pool power and lots of point-to-point operations. All the UP heritage units and half of the NS heritage units are included (but not all on the layout at once). BNSF, UP, NS, CSXT, KCS, CP, CN, and a few others are represented.

HO Ralph Schaad
Freelance 8

30 x 48 0% 1945 to present 10 stairs
Four mainlines run the perimeter of the large room with a single leaf bascule bridge allowing visitor access to the center of the layout. A large passenger yard and station is completed plus a second yard under construction. The layout is made for switching, so there is little scenery.

Hillsboro / Cornelius, Oregon Thursday, Aug. 27

L548 8:00 a.m.-2:00 p.m. (Box Lunch) \$35.00

G Allan Warrior
Burlington & Missouri River Railroad
Outdoor 1935 to 1969



This garden railroad is track powered with approximately 600 feet of track around three sides of the house. The theme is Creston, Iowa Division of the Burlington Route (CB&Q). Motive power is primarily 22 various diesels of the era. Some of the 71 buildings are actual scale models of buildings in Creston.

HO Pete Vassler
Canyon Creek Timber Railway



8 x 25 85% 1956 3 steps
NCE DCC Freelanced standard gauge logging operation set in scenic Skamania County, Washington. Cradled by Mt. Hood, Mt. Rainier, Mt. Adams, and Mt. St. Helens (before she blew her top). Emphasis is on scenery, following Canyon Creek through logging scenes from mountain water falls to the shallow stream below with lots of trees.

HO Charlie Comstock
Bear Creek & South Jackson



25 x 63 30% 1952 Stairs & High Deck, duck under
Beautiful mountain and valley scenery set this layout in the
Oregon Cascades and Willamette Valley. 300' mainline plus
three branches. Digitrax DCC. TTTO ops. Two yards build
trains. Mostly scratch built turnouts. Custom control electron-
ics. Massive staging area. Featured 50+ times in *Model Rail-
road Hobbyist* magazine.

HO Shaun Toman

UP Oregon Division

10 x 11 80% 2005 - present Duck Under
DCC-Digitrax & Sound. Emphasis is on operation, scenery
and highly detailed, plus masterfully weathered locomotives
and rolling stock. The layout is built into a former 12' x 12'
foot tool shed, fully insulated, carpeted and well-lit. During
operating sessions multiple trains run from an engine facility
through highly detailed scenery with cityscapes, farmland,
creeks and forest. This layout is featured in the June 2015
Model Railroad Hobbyist.

Chehalis / Olympia, Washington Thursday, Aug. 27 L552 7:30 a.m.-6:00 p.m. (Box Lunch) \$55.00

HO Lewis County Model Railroad Club

Chehalis Railroad



14 x 54 90% 1970s

Control Method - Digitrax DCC with Simulink Radio and
JMRI Wifi throttle support. Located in the Northern Pa-
cific Chehalis Depot (now the Chehalis Museum), the lay-
out is a depiction of the railroad in Lewis County including
the NP, GN, BN, UP, and the Chehalis Western.
Both the north/south mainline and the NP Willapa branch, and
logging railroads are displayed. There are a number of
fine scratch built structures. The mainline has
computer controlled bi-directional signaling. A free gift bag
will be given to each attendee. This layout is featured in the
July 2015 Model Railroad Hobbyist.

HO Scott Buckley

Tehama Valley Railroad

25 x 40 1940's

The Tehama Valley Railroad (TVRR) is a 27-mile North-
ern California short line that runs through the Sacramento
Valley and Sierra Foothills in the state of California. The TVRR
interchanges directly with the Union Pacific, the WP and ATSF
through a former interchange. The line primarily serves the
agricultural and logging industries. The room was built to
house the layout. The framework for the first phase of con-
struction is complete and track-work is in progress. The
layout features many scratch built structures and rural scenery
typical of the Sacramento Valley. The loco- motive roster is
100% steam, controlled by MRC Prodigy. The TVRR is a
regular participant in Oly Ops, and also in Soundrail 2014.

On30 Chuck Ricketts

Sherwood, Shelton And Sarazen

20 x 11 + 13 x 13 + 13 x 2 100% 1900's stairs

The S.S.& S. Railway is an On30 freelance model layout de-
signed for operation. Scenery is complete. Tracks are still
being added. All locomotives are equipped with sound. Operation is by TT&TO. Communication by
written orders and telephone. This layout is featured in the early 1900s in West-
ern Washington.

1:32 - 20" Gauge Wright, MMR
Consolidated Mining

14 x 22 95% 1930's

Digitrax DCC controls the CRMRR, set in north central Wash-
ington, circa 1935. Scale is 1:32, gauge is 20". The railroad's
function is to move ore and supplies between the mines and the



mills. Enter through a simulated mine opening and it's like you're transported into the scene.

HO Brian Ferris
Port Townsend Southern
15 x 26 95% 1950's to 1960's

Digitrax DCC controlled. This 1/2" scale layout is a modern version of a historical layout that existed in turn-of-the-century Thurston County, Washington. It features 1950's - 60's rolling stock including steam and early diesels on a bridge over the Portland-Seattle mainline which leases track to northwest railroads: NP, UP, GN, and Milwaukee.



CANCELLED

Layout Tours Friday, Aug. 28

Portland Area Clubs

L649 4:00 p.m.-11:20 p.m. \$15.00

This tour will be by shuttle bus.

Visit one, two or all three and stay as long as you wish!

HO Columbia Gorge Model Railroad Club
Columbia Gorge



60 x 70 100% Mid 1950's High Deck

Visit the host club for the Convention. One of the largest clubs on the West Coast at 4200 square feet, modeling the Columbia Gorge from Portland to Hood River and Wishram. See models of Crown Point, Portland's Union Station, an operating Steel Bridge and so much more. We have combined reality of the 1950's in Oregon and Washington along with fantasy like Bigfoot, The Starship Enterprise and even the Doctor WHO Tardis. We run with NCE DCC. See the article in July 2015 NMRA Magazine.

HO Mt. Hood Model Railroad Club

Freelance 9

30 x 40 100% Narrow Stairs

The club started in 1975, and is in the basement of the Mt. Tabor Masonic Lodge. The 1200 square foot layout models scenes of the Northwest. The mainline extends about seven scale miles. Riveston and Bridgeport are connected by a double-ended 10 yard track concealed beneath a mountain ridge. There are many fine details and lots of things to look for. See the article in May 2015 NMRA Magazine.

HO Willamette Model Railroad Club (Clackamas)

Columbia Cascade & Western

30 x 60 30% 1979 Narrow Stairs

The layout depicts the proposed, but never completed rail line over Santiam Pass, it feature's mainline operations and mountain railroading with helper service. See the article in March 2015 NMRA Magazine.

Layout Tours Saturday, Aug. 29

Deer Island, Oregon

L753 7:30 a.m.-12:30 p.m. \$25.00

L754 1:00 p.m.-6:00 p.m. \$25.00

1 1/2" Northwest logging demo Outdoor

Of particular interest to the loggers and those interested in working machinery among you, we have lined up a very interesting tour. These days it is very rare to be able to see a full sized multi-spool logging engine (donkey) working but here's your chance to see some working 1.5" scale donkey engine models. A group of local modelers sets up every summer to run a scale logging operation, complete with a highline yarder pulling in logs from the canyon and a loader picking them up and loading them onto log cars for the train to haul the logs "to the mill". The great thing about these 1/8 scale machines is that they operate just like the real ones. This tour involves walking 1/4 mile down a fairly steep driveway, and uneven ground near the demonstration. Attendees should be prepared for these conditions.



Host Club, Columbia Gorge Model Railroad Club

Origins

Organized in October 1947, the club's first layout was located in the basement of a store building within sight of our present location. Unfortunately, that layout was short-lived, as the club lost its lease and was forced to find new quarters. The members decided then that finding a permanent home for the club was vital to the club's longevity.

First Home

Their search yielded a vacant lot on North Montana Avenue, on which the members constructed a 30 x 80 foot building with their own hands. The building was completed in 1948 and served as home for the club for 34 years. In 1982, expansion of the adjacent hospital campus surrounded the club and it was time to find a new home for the club. In 1982, we sold the original building and property to the Kaiser Foundation. With the proceeds of that sale, we were able to construct our current home.

Current Home

This time around, we left the construction of the building to professionals so we could focus on preparing the inside for the new layout. After taking possession of the building on January 1, 1983, we began construction of the layout.

The main layout room is 58 by 70 feet (nearly 2.5x bigger than our old layout) with a 14 foot ceiling. We use all that ceiling height to provide stand-up access to the layout operations from underneath, and plenty of vertical space for the dramatic mountains along the Columbia Gorge.

The building has a large meeting room for the weekly club meetings, kitchen facilities for events, large library, board room, wood shop, and plenty of specialized areas for working on projects for the layout.

Layout

The layout models railroading around the Portland, OR area in the 1950's - during the transition era from steam to diesel - the heyday of railroading. We model many of the key aspects of railroading in Oregon: industries in and around Portland, the Oregon logging industry, the heavy mainline traffic along the Columbia River Gorge, and the Central Oregon Trunk Line from the wye just west of Wishram, WA, along the Deschutes River up to Bend, OR.

The layout is designed to allow the easy flow of a large number of visitors viewing the main layout; During peak traffic of our annual show, we can easily handle as many as 300 visitors per hour.

www.columbiagorgemodelrailroadclub.com/

General Interest Tours

Bob's Red Mill & Aurora Antiques

G261 Monday, 9:30 a.m.-4:30 p.m. \$30.00

Come and learn about the wonderful world of stone grinding whole grains on a guided tour of the BRM manufacturing facility. Friendly 'Grain Guides' provide you with a brief history of how Bob and Charlee Moore championed the goodness of simple, natural whole grains and created a company now respected around the world. You will watch the action of a working mill as seen through our viewing windows. They even have a Gluten Free mill! Following the tour we will travel one mile to the Whole Grain Store and Café for lunch (self pay) and shopping. After lunch, we will travel up to Aurora where we will explore a two block area with Antique shops galore.

Oregon Wine Tour & Tasting

G262 Monday, 12:30 p.m.-5:00 p.m. \$25.00

The North end of the Willamette Valley provides a superb micro-climate and suitable soil for the cultivation of premium Pinot Noir, Pinot Gris and Pinot Blanc grapes. What can we say about wine tasting? We will be visiting three wineries in Forest Grove, just west of Portland, in the heart of the Willamette Valley Wine Growing area. One larger winery and two smaller ones offer amazing Oregon wines. One has the added surprise of a Christmas Décor Shop in back! All wineries offer tastings for a nominal fee if you wish to try their selections. If you just like to shop you are welcome to do so without paying the tasting fee.

Powell's Books & Quilt - Yarn Shops

G363 Tuesday, 1:00 p.m.-5:00 p.m. \$25.00

Powell's City of Books is an independent bookstore in Portland that claims to be the largest independent and used bookstore in the world. Powell's City of Books is located in the Pearl District on the edge of downtown and occupies a full city block. It contains over 100,000 square feet (6,300 m²), about 1.6 acres of retail space. CNN rates it one of the ten "coolest" bookstores in the world. Shop those shelves — literally — for books, DVDs, and gifts. After we are finished there we will visit two yarn/craft stores.

Oregon Coast Railroad & Oregon Coast (Box Lunch)

G364 Tuesday, 7:30 a.m.-6:00 p.m. \$70.00

Step back in time and experience a bit of yesteryear. We will travel by motor coach to Garibaldi and board the Oregon Coast Scenic Railroad. Enjoy the beautiful Oregon Coast line by riding the rail behind a historic Steam Locomotive. This scenic trip chugs along Tillamook Bay and gives passengers views of the ocean. Great for all ages, this trip will give you a glimpse into history and a unique view of the Oregon Coast and the Nehalem River Canyon. A shop tour is available, where the unique Little River 2-4-4-2 is being restored. We also visit Cape Meares Lighthouse (Oregon's shortest lighthouse) and the Tillamook Cheese Factory where you can see cheese being made. Save room for their wonderful ice-cream!

Portland Bridge & Union Station Tour #1

G368 Tuesday, 8:00 a.m.-Noon \$37.00

This tour will include a visit to the operator's tower of the Morrison Bridge (to meet the operator) and, bridge willing, include an opening while people are standing either in the operator's tower or down below in the Morrison's west end bascule pit (gears 36 feet tall and 940 ton counterweight moving). You will also walk across the bottom deck of the Steel Bridge, look through Union Station with the station agent, visit ODOT Region 1's bridge museum, and travel to Vancouver to see an opening of BNSF Bridge 9.6 on the Columbia. We may not be able to walk on the under construction Tilikum Bridge, but we

will get close. Depending on where we can and cannot go and the mobility of the group, we may be able to swing a drive by the St. Johns Bridge for a look at the only major suspension bridge in western Oregon, and a drive by BNSF Bridge 5.1, also on the Willamette.

Fabric Depot & Pendleton's Shopping

G465 Wednesday, 8:30 a.m.-12:30 p.m. \$25.00

Fabric Depot is one of the largest, most complete, locally and independently-owned fabric stores in the country. They stock a vast array of brand name, first quality fabrics, notions and crafts in an enormous, well-maintained store. You'll be inspired by 20,000 fabrics in various departments: Quilting, Bridal, Home Decor, and Fashion. Fabric Depot also carries a great selection of quilting supplies, sewing notions, books, patterns, yarns, gifts and even specialty foods! A major rail-head serving the Columbia Plateau, the town of Pendleton was a wool shipping center for sheep growers of the region. The mill, originally built in 1893, began as a wool scouring plant, which washed the raw wool before shipping. Pendleton's is an Oregon institution for woolen wear. Although we won't travel to Pendleton, where the original Mill still stands, and is operating, we will stop at one of the stores that the products are sold!

Portland Spirit Dinner Cruise

G475 Wednesday, 6:00 p.m.-10:00 p.m. \$105.00

The Portland Spirit is our flagship: a 150' yacht with three public decks, two of which are enclosed and climate controlled. A vibrant setting enhanced by dazzling city sights and city lights. An evening filled to the brim with festive cuisine, locally sourced and prepared fresh on board. This wonder filled cruise takes you down the Willamette River for a 2 1/2 hr journey while you enjoy dinner served by singing wait staff!

Note: This event is not wheelchair accessible on our deck but wheelchair bound passengers can accommodate a separate table on the lower floor that is accessible. We must know in advance so they can set this up.

Our Menu (you choose on board) for the evening will be:

Herb Roasted Snake River Farms Beef

with Carmelized Shallot-Gorgonzola Butter. Served with Roasted Red Potatoes and Seasonal Fresh Vegetables **Or**

Pan Seared Breast of Chicken

Wrapped in Prosciutto with Fresh Tomato Relish topped with Smoked Provolone, Served with Rice Pilaf and Seasonal Fresh Vegetables **Or**

Vegetarian Entrée

Vegetarian Lasagna served with Fresh Seasonal Vegetables

And for dessert:

Snickers Bar Pie Or Caramel Apple Torte

Dinner entrées served with House Salad, Fresh Baked Bread, Coffee and Hot Tea. Assorted soft drinks and Ice Tea are self-serve and a Cash Bar will be available.

Please have your convention ID tag, driver's license (or other ID) **and** your ticket with you for boarding.

Sternwheeler Columbia Gorge Cruise

G566 Thursday, 8:40 a.m.-1:00 p.m. \$65.00

Experience the history of the Columbia River Gorge and learn about the Lewis and Clark Expedition on a cruise aboard the Columbia Gorge Sternwheeler. We board from Marine Park at Cascade Locks, in the heart of the Columbia River Gorge National Scenic Area. Enjoy the 2 hour riverboat cruise on an authentic triple-deck paddle wheeler, providing 360 degrees of breathtaking vistas. Watch Native American tribes fish from their legendary platforms as they have for centuries. Snack bar available on board.

Pittock Mansion, Rose Test Garden, Japanese Garden**G567 Thursday 12:15 p.m.-5:00 p.m. \$70.00**

A house of historical significance and visual magnificence, the Pittock Mansion today offers us a uniquely personal opportunity to peek into the past, and study our world as it was – from the view-point of one Portland family. With its eclectic architectural design and richly decorated interior, including family artifacts, the Pittock Mansion stands today as a living memorial of this family's contributions to the blossoming of Portland and its people.

A short bus ride away is the Rose Test Garden. One of Portland's nicknames is the City of Roses, and this town has long been an incubator for the scented beauties. In 1917 the International Rose Test Garden was born, and lives on as the oldest official, continuously operated, public rose test garden in the United States.

Then we go to the 5.5 acre Japanese Garden. It is composed of five distinct garden styles. When we enter a Japanese garden, the desired effect is to realize a sense of peace, harmony, and tranquility and to experience the feeling of being a part of nature.

Portland Bridge & Union Station Tour #2**G568 Thursday, 1:00 p.m.-5:00 p.m. \$37.00**

See G368 for description.

Spruce Division Cut Up Mill, Pearson Air Museum, Ft. Vancouver**G569 Thursday, 1:00 p.m.-5:00 p.m. \$25.00**

Vancouver Washington has seen a lot of pioneering and military history in its 190 years since Europeans came to the area. Starting with the Hudson's Bay Company, a fur trading post established in 1825, continuing through the establishment of the US Army in 1849 to establish Vancouver as the primary military post in the Pacific Northwest. In the second half of the 19th Century and Indian Wars, during WWI, the demand for Sitka Spruce caused the Army to build the world's largest cut up mill in 1918 that was served by the SP&S Ry. See a detailed 3' x 8' HO model of the cutup mill and then walk over to the Park Service's reconstruction of the Hudson's Bay fort and see evidence of the few physical remnants of the mill remaining as well as some buildings remaining from the time the Barracks and mill were served by the SP&S. You'll also tour the fur trapping fort itself and see how beaver and other pelts were stored, bailed and shipped to Asia and Europe to serve the fashion demands of the 19th Century.

Last Thursday Street Fair**G570 Thursday, 5:40 p.m.-9:30 p.m. \$25.00**

In the Northeast area, Alberta Street is the heart of an arts, restaurant, and shopping district approximately 20 blocks long. On the last Thursday of every month there is an art walk that takes place in galleries and shops outdoors during warmer weather, with tables set up by local artisans and traveling merchants along the sidewalk. Street performers and food carts also participate in the street fair. We will be running a shuttle bus back and forth to the street fair from the hotel over the evening (times to be arranged).

Art Museum, Courthouse, Walking tour**G671 Friday, 8:40 a.m.-12:30 p.m. \$25.00**

Discover Portland the green and eco-friendly way. This award-winning walk clarifies why Portland is recognized as one of the best places to live. During our walk, you will want to move here too. Visit downtown early and modern Portland as your guide shows you an enlightened city, rich with artwork, parks, downtown trains & streetcars, fountains, and people. Even locals are amazed and entertained as they learn. This walk meanders through

the most fascinating portions of the city, leading eventually to the waterfront.

The courthouse, which is a National Historic Landmark, is the single most important 19th-century government building in the Pacific Northwest to survive intact. Opened in 1875, you are invited to visit the building to tour its ornate hallways and public areas. The courtroom on the second floor, the cupola at the top of the building (with its astounding vista of a central city square), and exhibits throughout the building tell the story of the building, the courts, and the people who worked here. Please have picture ID for this tour. The courthouse uses door security, so no pocket knives or other items that might be interpreted as a weapon. They will be confiscated and won't be returned.

Evergreen Air Museum, McMinnville Shopping

G672 Friday, 11:00 a.m.-4:00 p.m. \$25.00

One Bus- Two Separate Tours! Choose this trip if you want to go to either location. With displays ranging from the elegant aeronautic designs of two unknown bike mechanics – Orville and Wilbur Wright – to an actual Lockheed SR-71 Blackbird that can fly at speeds of over 2,000 miles per hour – the Evergreen Aviation & Space Museum located in McMinnville, Oregon, has a little something for everyone. The centerpiece of these aeronautical break-throughs is the original Spruce Goose. Built entirely of wood, due to wartime restrictions on metals, this massive airplane stands as a symbol of American industry during World War II. Purchase Museum entry (\$25.00 Adult), and lunch on your own at the café.

If that is not your cup of tea -or glass of wine- stay aboard and we will travel into downtown McMinnville, Oregon. Located in the Yamhill County wine region of Oregon's lush Willamette Valley, McMinnville is a charming community. Sprinkled throughout downtown McMinnville are restored, turn-of-the century buildings reinvented as restaurants (where you can get lunch), wine bars, antiques stores and unique shops. Stroll along the tree-lined streets or relax in a city park to enjoy this cozy community in Willamette Valley wine country.

Symphony in the Park (box dinner)

G673 Friday, 5:00 p.m.-10:00 p.m. \$35.00

How about a picnic dinner and symphony at a park? Each year, the concert draws thousands of people to the grassy bowl next to the Hawthorne Bridge to hear the orchestra preview works from its upcoming season. Closing festivities include the traditional grand finale - Tchaikovsky's 1812 Overture with an elaborate fireworks show, complete with military cannons from the Oregon Army National Guard 218th Field Artillery. This event begins earlier in the day but if you would like to join us for a box dinner, transportation to the park, and ADA seating, this is the event for you. Bring something to sit on.

Portland Saturday Market / Swan Island Dahlias

G774 Saturday, 9:45 a.m.-5:00 p.m. \$35.00

Portland Saturday Market is celebrating its 41st year in the historic Old Town/Chinatown neighborhood. This weekly market features 252 booths showcasing a variety of arts & crafts by local Pacific Northwest artisans. Established in 1976, this market has a thriving membership of over 300 artisans. After you've had lunch (at the market, self-pay) we travel to Canby to a Dahlia Farm. Swan Island Dahlias, in business for over 88 years, is the largest and leading dahlia grower in the United States. A must see for the dahlia lover, or if you just love flowers. View over 400 floral arrangements of dahlias, over 15,000 cut dahlia blooms on display, in our three indoor display rooms. This is the largest display put on by one grower anywhere in the United States! You can take a stroll through 40 acres of dahlias in full bloom. Take some cut flowers home with you to extend your visit and remember the beauty.

Industrial Tours and **Rail Excursions**

Prototype Tour Etiquette

The following is a short list of rules of conduct that we ask people on prototype tours to observe:

- The right front seats on the bus are always reserved for the bus captain/tour leader.
- All destinations are NO SMOKING...period. If you must smoke please do so outside. Move away from other visitors and please don't discard your butts.
- Industrial facilities require a dress-code of long pants and fully enclosed, sturdy, shoes.
- Photography policy at destination is usually advised by the corporate representative meeting our bus.
- Do not stray from the group.
- Time your rest-room stop so that you are back on the bus at the designated departure time.

Guided Railfan Tour of Columbia Gorge #1

P201 Monday, 7:50 a.m.-6:00 p.m. \$88.00

See the UP on the South shore (Oregon side) and the BNSF on the North shore (Washington side) of the majestic Columbia River Gorge. Catch fast freight and passenger service moving both east and west. Especially picturesque are the natural basalt tunnels and steep terrain that typify the BNSF mainline. See remnants of the last operating lumber flume in North America, shut down in the 1980's. See the transition from the lush green west Cascade foothills around Portland to the high desert of eastern Oregon and Washington. See Wishram, Washington - a classic railroad town built at the turn of the 20th century as a division point and north end of the Oregon Trunk.

On the Oregon Side, there are lacy waterfalls dropping from high basalt bluffs, the terminus of the Mt. Hood Railroad, and a wide variety of typical UP trains. (Box Lunch included)

Port of Vancouver Tour

P202 Monday, 8:30 a.m.-Noon \$25.00

The Port of Vancouver is a major shipper of western wheat to Asia, receiver of wind turbines and Pacific port of entry for Su-baru. They are working on becoming a oil terminal. The port is capable of receiving and unloading unit grain trains, and returning them to the BNSF or UP, without ever uncoupling them. Their most recent improvement is the development of the "Trench" which will allow trains to enter and depart without crossing and blocking the double-track mainline, thus increasing the Vancouver Yard capacity by as much as 40%. This bypass will be newly commissioned and in service by the time of our tour.

UP Albina Yard & Engine Facility Tour

P203 Monday, 1:15 p.m.-5:00 p.m. \$25.00

Albina Yard has been the Union Pacific Railroad's primary Port-land yard for nearly a century. It lost its container business when UP converted the ex-SP Brooklyn Yard to be the Portland COFC & TOFC terminal but Albina still retains the classification work-load it has had for all of its history. It is a classification yard and processes over 1200 cars per day. We'll have a guided tour of the yard on board our bus followed by a stop and look into the Port-land Engine Servicing Facility and ask questions of the UP staff present as well as a chance to take pictures of whatever equipment is in the vicinity of the maintenance facility.

Chelatchie Prairie Railroad Excursion #1

P216 Monday, 8:00 a.m.-Noon \$50.00

Chelatchie Prairie **CANCELLED** #2

P204 Monday, 12:45 p.m.-5:00 p.m. \$50.00

Take a memorable ride through the scenic countryside of rural Clark County, Washington on the Chelatchie Prairie Railroad. See beautiful scenery behind a 1929 Alco 2-8-2T that started life as Crossett-Western Logging on the lower Columbia River in Oregon and later worked on the Hammond Lumber line near Eureka, CA. Highlights include a crossing of the East Fork of the Lewis River on a steel bridge/wood trestle crossing and a 330' rock tunnel. A Photo Run By will be included.

Guided Railfan Tour of Columbia Gorge #2

P301 Tuesday, 7:50 a.m.-6:00 p.m. \$88.00

See P201 for description

Tri-Met MAX Light Rail Shops Tour

P305 Tuesday, 8:30 a.m.-Noon \$48.00

Visit the TriMet agency's original maintenance shops where their light vehicles are serviced and repaired. Every fleet needs a home port, and for TriMet's light-rail trains, the Ruby Junction Maintenance Facility in Gresham is the main place to tie up for a little R&R.

The 17-acre campus of buildings, and a rail yard off of East Burnside, is the regional transit agency's oldest and largest maintenance yard, operating since the mid-1980s. But as the rail system continues to grow, so does Ruby. Attendance is very limited for this tour.

BNSF Vancouver Yard Tour #1

P306 Tuesday, 8:15 a.m.-Noon \$25.00

BNSF Vancouver Yard Tour #2

P314 Tuesday, 1:00 p.m.-5:00 p.m. \$25.00

Visit this major BNSF junction and division point, with trackage going in all four directions. In the days of the SP&S, this was their main yard. Vancouver station, built in the 1910s, is on the National Registry of Historic Places and still serves 12 Amtrak trains daily, including the N-S Starlight and the E-W Empire Builder. The Columbia River Bridge is one of the longest swing bridges in the US. The yard services the Port of Vancouver, and is a major hub for the Portland area.

Hull-Oakes Lumber Mill Tour #1

P307 Tuesday, 9:00 a.m.-4:30 p.m. \$40.00

Hull-Oakes **CANCELLED** #2

P317 Tuesday, 11:30 a.m.-6:30 p.m. \$40.00

This is a chance to see a lumber mill from the past. The mill, which was on tour at both 1987 Eugene and 1994 Portland Nationals, is over 50 years old and still retains a steam boiler and a steam engine that powered some of its saws until very recently. The mill specializes in cutting heavy structural timbers and still uses straddle trucks to transport lumber. Here's a chance to see a historic sawmill that continues to successfully compete in the 21st Century. This tour will involve narrow pathways, steep stairways and tight turns. It will also require walking up to 1/2 mile or so. Two hour drive each way. (Lunch included)

Gunderson Car Builders Tour #1

P308 Tuesday, 8:15 a.m.-Noon \$30.00

Gunderson Car Builders Tour #2

P318 Tuesday, 11:15 a.m.-2:30 p.m. \$30.00

This tour provides a rare look at one of America's premier rail car builders. Gunderson builds anything that railroads or leasing companies order, but they are most famous for their double

-stack container cars, center-beam lumber flats, S-Pack low profile TOFC cars, as well as box cars. This is a walking tour through the heart of an industrial plant, so sturdy walking shoes, long pants, and the physical capability for a one-mile walk with stairways is a necessity.

Guided Railfan Tour of Columbia Gorge #3

P401 Wednesday, 7:50 a.m.-6:00 p.m. \$88.00

See P201 for description

Gunderson Car Builders Tour #3

P408 Wednesday, 8:15 a.m.-Noon \$30.00

Gunderson Car Builders Tour #4

P418 Wednesday, 11:15 a.m.-2:30 p.m. \$30.00

See P308 for description

Mt. Hood Railroad Excursion

P409 Wednesday, 8:45 a.m.-5:15 p.m. \$95.00

Enjoy an excursion on this tourist and freight shortline railroad that used to be a branch of the UP. The trip goes from Hood River to Parkdale, Oregon in the shadow of 11,238 foot Mt. Hood. The line includes an operating 3 mile switchback. Switchbacks used to be common, but this is now only one of five remaining railroad switchbacks in use in the United States. Travel behind chopped nose GP9s on a 4 hour round-trip ride (22 miles each way). (Meal included)

SP Fiber Technologies Paper Mill Tour

P410 Wednesday, 12:50 p.m.-5:30 p.m. \$30.00

SP Fiber Technologies is a manufacturer of newsprint and packaging papers and is served by the Portland & Western Railroad on former SP track. They convert used paper into these products using mechanical refiners rather than chemicals. During the tour you will walk through the mill, viewing the warehouse full of bales of recycled paper, the separation of paper from plastic and other unwanted materials, and the high horsepower refiners that reduce the paper back to individual cellulose fibers before being run through a paper making machine, and made into paper again for reuse. This mill is the very definition of recycling in practice. A very interesting industrial tour. Extensive walking and stairs on concrete floors and some gravel roadways.

Mt. Rainier Scenic RR & Tacoma Rail Tour

P511 Thursday, 8:15 a.m.-8:30 p.m. \$95.00

You'll depart bright and early via motor coach for a tour of the engine servicing facilities and dispatch center for the Tacoma Rail and get a chance to photograph some of their locomotives that are in the area for servicing.

Tacoma Rail has provided rail transportation as a public entity since 1914. With 14 locomotives, more than 100 employees and about 200 miles of track, Tacoma Rail provides key freight connections for customers in greater Tacoma and Olympia, Wash., handling in excess of 165,000 freight shipments per year.

Following the visit to Tacoma Rail you will ride through forested river valleys to the little town of Elbe, Washington. There you'll board the Mt. Rainier Scenic Railroad for a 2-1/2 hour ride behind steam into the woods. Upon reaching the Mineral, Washington engine terminal you'll examine their locomotive collection, which includes the only operating geared Willamette locomotive in existence, as well as a 2-4-4-2, 3-truck Shay, 3-truck Climax, 3-truck Heisler, former Hammond Lumber 2-8-2T, NP EMD F9 #7012A, 2 Alco S1's (one repainted to its original NP Terminal RR #30), RSD1 (built for the Rock Island, but used by the US Army), Vulcan diesel, GE 44 tonner. Then you'll re-board your coach for the return trip to Portland. (Box lunch and dinner included)

Northwest Rail Institute Tour

P512 Thursday, 8:30 a.m.-Noon \$25.00

The Institute is established to prepare potential railroad conductors and engineers to be highly qualified hires for America's railroads. They provide classroom theory classes as well as practical experience moving cars and locomotives on their track in a nearby industrial park. You will be given a tour of their facilities and a promised demonstration of industrial switching.

Oregon Rail Heritage Center (SP4449, SP&S700, OR&N197) #1

P515A Thursday, 8:00 a.m.-11:00 a.m. \$20.00

Oregon Rail Heritage Center (SP4449, SP&S700, OR&N197) #2

P515B Thursday, 9:00 a.m.-Noon \$20.00

Here's chance to take a look at three of Oregon's railroad treasures. The City of Portland owns three historic and world famous locomotives. Southern Pacific 4449 was built by Lima in 1941 and is probably the most famous steam locomotive in the world, having pulled the Freedom Train during the 1976 Bicentennial following its career pulling SP Daylight passenger trains. Its stable mate Spokane Portland & Seattle 700, built by Baldwin in 1938, is also a 4-8-4. It used to pull SP&S passenger trains between Portland and Spokane, Washington that were connections to the GN Empire Builder and the NP North Coast Limited transcon trains. Both of these engines have been restored to operation. The 4449 will have just finished its 15 year FRA mandated boiler overhaul and the 700 will be undergoing its 15 year inspection during our visit. The final locomotive in the collection is the oldest of the three, the Oregon Railroad & Navigation (UP) 4-6-2 built in 1905 by Baldwin to serve the Lewis & Clark Exposition in Portland. All three locomotives will be on display in their new engine house, ready for you to examine, touch and photograph. You might even get a chance to chat with famous SP4449 restorer/engineer Doyle McCormack.

Chehalis Centralia Railroad Excursion (Box Lunch)

P713 Saturday, 8:00 a.m.-2:00 p.m. \$45.00

Here's an exciting and interesting excursion behind steam! The 90-ton Baldwin 2-8-2 locomotive is ex Cowlitz, Chehalis & Cascade #15, originally used in the NW logging industry and was restored in 1989, after sitting in a park for 30 years. Travel 9 miles south through scenic farmlands in the Chehalis Valley and wind along the Chehalis River to a siding and trestle at Ruth and return.

Oregon Rail Heritage Center (SP4449, SP&S700, OR&N197) #3

P715A Saturday, 8:00 a.m.-11:00 a.m. \$20.00

Oregon Rail Heritage Center (SP4449, SP&S700, OR&N197) #4

P715B Saturday, 9:00 a.m.-Noon \$20.00

See P515 for description



Clinics

The Clinic Office is in the Ross Island Ballroom.

Clinics at the Portland Daylight Express 2015 National Convention will appeal to beginners and experienced model railroaders alike. Included in our clinic program will be a host of very talented folks you may not have heard of, but will be talking about after you leave. With over 120 clinicians giving clinics, there will be more than a few you'll want to attend.

Clinics are divided into several main categories:

Modeling with the Masters, General, General Interest, Historical, Prototype, Regions and Divisions, and Technical.

Clinics are scheduled to start the afternoon of Sunday, August 23 and run through Saturday, August 29. Space may be limited in certain clinics, so please arrive early.

Clinics in the Timetable are presented in three sections:

1. Modeling with the Masters. Includes a full description of each clinic and when it is offered.
2. List of clinics arranged alphabetically by the surname of the clinic presenter. Includes a full description of each clinic and when it is offered. Clinics with several presenters are described at the name of the earliest alphabetical surname, or wife of the couple presenting.
3. List of clinics arranged by title.

The clinic office will be open during the following hours:

Sunday	12:00 noon - 4:00 p.m.
Monday - Thursday	7:00 a.m. - 10:00 p.m.
Friday	12:00 noon - 10:00 p.m.
Saturday	8:00 a.m. - 4:00 p.m.

Closed at posted meal times.

Clinicians are requested to check-in at the Clinic Office on arrival at the convention.

This assures the planners that you are here, and allows briefing as to room location, agreed schedule, and equipment check.

Secure storage is available for your clinic materials.

Clinic Descriptions

Modeling with the Masters

Join a team of Master Model Railroaders as they personally help you build a model. These hands-on sessions run during the convention Sunday through Wednesday.

Each session is up to 5 hours and begins with a workshop on the project, followed by a hands-on session during which you will build a model. A team of Master Model Railroaders will assist you, answer your questions and share their modeling expertise, skills and techniques.

When the session is finished you will be able to take your project home.

See page 22 for full descriptions.

Clinics By Presenter

Auburg, Doug

Your host club: The Columbia Gorge

Sunday	Weidler	4:00 p.m.-5:00 p.m.
Monday	Mt. St. Helens	8:00 a.m.-9:00 a.m.

The Columbia Gorge Model RR Club, Inc. is 68 years old this year. It is somewhat unique in the fact that it owns its own building and layout. The Club is also your Host Group for this convention (and was the Host Group for the successful 1994 NMRA National Convention). This clinic will cover the history of the club and its movement from rented space to our first building and finally to our current building and layout.

layout-tour

Baker, Stuart; Priest, MMR, Stephen

Introducing NMRA LCC - NMRA Layout Command Control

Wednesday	Sellwood	2:30 p.m.-3:30 p.m.
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This is a discussion of what the new NMRA LCC standard is and what it does. Topics that will be discussed include:

1. A brief description of LCC, and how it enables development of MRR products.
2. How does LCC complement the existing NMRA DCC standards?
3. How does LCC interoperate with existing alternatives?
4. What distinguishes LCC from layout automation and control systems that have preceded it?
5. What are the next steps for the NMRA LCC standard?

LCC,NMRAnet

Baker, Stuart; Harris, David; Racz, Balazs

OpenLCB/NMRA LCC - Overview and Current Status

Wednesday	Sellwood	4:00 p.m.-5:00 p.m.
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LCC is a subset of OpenLCB protocol standards, and is designed to be 100% compatible and interoperable with OpenLCB. The OpenLCB group's mission is to push the boundaries model railroad control. Work within the OpenLCB group is on the leading edge of technology. Once an OpenLCB protocol has been documented, prototyped, and thoroughly tested, it becomes a candidate for adoption by the NMRA as part of the LCC standards.

LCC,NMRAnet

Baker, Stuart; Harris, David; ; Racz, Balazs

OpenLCB User's Group Meeting

Wednesday	Sellwood	7:00 p.m.-8:00 p.m.
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LCC is a subset of OpenLCB protocol standards, and is designed to be 100% compatible and interoperable with OpenLCB. The OpenLCB group's mission is to push the boundaries model railroad control. Work within the OpenLCB group is on the leading edge of technology. Once an OpenLCB protocol has been documented, prototyped, and thoroughly tested, it becomes a candidate for adoption by the NMRA as part of the LCC standards.

This meeting is to discuss topics related to next generation model railroad control with the architects of OpenLCB and LCC. This is an open forum and a chance for users to discuss their ideas with the developers.

LCC,NMRAnet

Baker, Stuart; Racz, Balazs

Building an NMRA LCC Node using Commercially Friendly, Free, and Open Source Software

Thursday	Weidler	8:30 p.m.-11:00 p.m.
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Using inexpensive micro-controller development kits from some of the world's leading semiconductor manufacturers (Freescale, Microchip, NXP, ST Microelectronics, and Texas Instruments); learn how to quickly build your very own LCC compatible node. In this class, each participant will create an

LCC node, and then join that node to an LCC bus using CAN, Ethernet, Wi-Fi, or USB. JMRI will be used in this class as a diagnostic tool.

The target audience is electronics hobbyists and manufacturers. Basic understanding of programming techniques in C, C++, and/or Java is recommended. Each participant is required to furnish their own PC running Apple OS X, Microsoft Windows, or Ubuntu Linux 12.04/14.04 operating system. Each participant will have the opportunity to take home a working LCC node and USB stick with the required tools and software. Cost is \$35 (a surcharge may apply depending on which hardware you chose). Limited to 20 participants.

Preregister at <https://sites.google.com/site/openmrn/home> to reserve a spot.

You will be contacted after signing up to verify your choices.

LCC,NMRAnet

Barney, Bruce

Buildings on the Southern Pacific Cascade line, Eugene to Crescent Lake

Monday	Sellwood	10:00 p.m.-11:00 p.m.
Tuesday	Mt. Hood	1:00 p.m.-2:00 p.m.

Bruce will discuss the prototype research he did for a number of buildings located on the Southern Pacific's Natron Cutoff. He'll also talk about creating models of many of these buildings. This clinic will include a number of never-seen-before historic photos of the Natron area (courtesy of Larry Castle.)

prototype-modeling,modeling-structures,research,RPM

Barney, Bruce

3D printing - designing and creating them

Monday	Mt. St. Helens	7:00 p.m.-8:00 p.m.
Tuesday	Weidler	9:30 a.m.-10:30 a.m.

Bruce discusses how he designed a log loader and brought it to life using 3D printing. He will cover 3D printing of complex shapes showing examples of his work.

modeling-3D-printing,prototype-modeling,RPM

Besougloff, Neil

What's new at Model Railroader magazine?

Thursday	Mt. Hood	1:00 p.m.-2:00 p.m.
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Behind-the-scenes look at Model Railroader's yearly project layouts plus new products available from Model Railroader, concluding with a Q&A session.

hobby-media,hobby-future,commercial-clinic

Bisgeier, Craig

Designing and building laser-cut freight cars

Monday	3-Sisters	11:00 a.m.-noon
Saturday	Sellwood	8:00 a.m.-9:00 a.m.

Craig Bisgeier, proprietor of AmesvilleShops.com, designs freight car kits on his home computer and has them laser-cut by a third party. He is able to create cars and structures he needs for his own layout, and sells extra copies to other modelers to help pay for his hobby expenses. And he wants to show you how you can do it too. We will go through the basics of the software, how to use it, and basic kit design. Then he will discuss available materials to work with, how to prepare a set of drawings for a commercial cutter that will save you time and money. He will show several examples of his work, including several car kits he's made as well as structures which would be nearly impossible to model by hand. Finally he will do a visual walk-through of how an average laser-cut car kit is assembled. By the time you leave you will have a good idea of how to get set up and start creating your own kits!

rollingstock,laser-cutting,prototype-modeling,RPM

Bisgeier, Craig

An update on my 1892 Housatonic Railroad layout

Monday	Mt. Hood	4:00 p.m.-5:00 p.m.
Saturday	Sellwood	9:30 a.m.-10:30 a.m.

Under construction since 2002, the Housatonic has been no stranger to upheaval and renewal. Craig will talk about his reasons for modeling something very different from the pack, how it changed the way he models and what the pros and cons of it are. Begun with precious little information, the layout has experienced both subtle and dramatic changes made over a decade, thanks to more and better information than was available when it all got started. Craig also shares why sticking to a specific set of givens and druthers from the beginning made it possible to make changes, expand and even re-design parts of the layout on the fly when new things were learned.

layout-tour,prototype-modeling,layout-design,LDSIG,OpSIG

Bisgeier, Craig

Beyond Pratt: Designing and building better bridges for your layout

Monday	Sellwood	1:00 p.m.-2:00 p.m.
Tuesday	Mt. Hood	8:00 a.m.-9:00 a.m.

Everyone loves bridges on their layouts, but limited selection and unrealistic design of commercial kits mean many scenes are not as interesting as they could be. Craig Bisgeier, an avid scratchbuilder and modeler, believes that we can all do better modeling with basic tools and parts and a little information.

Follow step by step as Craig explains the basics of truss bridges, basic bridge design, and what's available out of the box (and why most of it is awful) to the average modeler.

Craig then goes through how to use commercial kits and parts to improve the looks of the off the shelf models, and how to make custom bridges that will stand out on your layout with just a little more effort. Emerging technologies like laser cutting and 3-D printing are also pushing the limits of what's now possible! The clinic ends with a humorous discussion of what NOT to do. Join Craig and see what you can do to improve your bridge modeling!

modeling-bridges,prototype-modeling,scratch-building,RPM

Black, Rodney

CATS: A CTC panel that grows

Monday	Weidler	11:00 a.m.-noon
Tuesday	Sellwood	11:00 a.m.-noon

This clinic is an introduction to the Computer Automated Traffic System (CATS). CATS is open source software built upon JMRI for creating and operating a modern looking CTC panel. The clinic will open with creating a CTC panel for John Armstrong's "minimum-size loop-to-loop" layout, and operated as a magnet board. It will progress to demonstrating how to add occupancy detection, turnout feedback, turnout control, and signal control, in a simulation mode. The clinic will demonstrate other features built into CATS, including train tracking, session recording, train status display, crew management, and rapid CTC panel development for module groups. For a preview, see the August 2010 NMRA Magazine or <http://home.comcast.net/~kb0oys>.

CTC,JMRI,signaling,operation,LDSIG,OpSIG

Black, Rodney

Layout design for signaling

Friday	Sellwood	8:30 p.m.-9:30 p.m.
Saturday	Mt. Bachelor	1:00 p.m.-2:00 p.m.

The use of signals will enhance any layout. This clinic will discuss how signals can be used on a layout, from what signals do to where they are placed, and how they interact with segments of the layout.

signaling,layout-design,LDSIG,OpSIG

Blake, Bob

EduTRAIN update

Wednesday	Weidler	8:00 a.m.-9:00 a.m.
Saturday	Sellwood	11:00 a.m.-noon

Come hear the latest progress in the EduTRAIN program.

edutrain

Blake, Rich

Operations with Virtual railroading

Friday	Sellwood	10:00 p.m.-11:00 p.m.
Saturday	Weidler	1:00 p.m.-2:00 p.m.

In this clinic we will explore the world of Virtual Railroading on the computer to enhance your model railroading experience. Many of the skills and requirements of the NMRA Chief Dispatcher AP can be accomplished on railroad simulators including practicing operational methods, study of prototype routes, building time tables and track schematics. We will focus on each of these subjects as they relate to model railroading with live demonstration and open discussion.

virtual-railroading,OpSIG

Bragdon, Joel; Talviste, Mike

Scenery using geodesic foam

Friday	Mt.Hood	10:00 p.m.-11:00 p.m.
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Geodesic foam scenery

Scenery

Bronson, Dick

Basics of signaling and automating your layout

Sunday	Sellwood	2:30 p.m.-3:30 p.m.
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The essentials to consider when planning to add Signals or other Automation to your Layout. Includes information on the various kinds of signaling used by the prototype railroads, signal types, and manufacturers. Includes information from the LDSIG panel discussion; "Planning for Signals" presented at the 2009-2011 NMRA Conventions. Introducing The NMRA LCC bus for Signals and Automation.

signaling,LCC

Brown, MMR, Bill

Using your digital camera to enhance your modelling (Part 1)

Sunday	Mt. Bachelor	1:00 p.m.-2:00 p.m.
Friday	Mt. St. Helens	8:30 p.m.-9:30 p.m.

This clinic will take participants through a variety of modeling projects that can be enhanced through digital photography - from creating photo backdrops, signage, structures, and several structure enhancements, etc. Some photography tips will also be discussed.

photography-video,hints-and-tips

Brown, MMR, Bill

Using your digital camera to enhance your modelling (Part 2)

Sunday	Mt. Bachelor	2:30 p.m.-3:30 p.m.
Friday	Mt. St. Helens	10:00 p.m.-11:00 p.m.

This clinic is an in depth extension of the concepts shared in Part 1. Participants will be taken step by step through the use of software to stitch and edit photos for the creation of photo backdrops, photo structures, signage, structure enhancements, and many more photo projects.

photography-video,hints-and-tips,software-photography

Bunza, Geoff

Prototype maintenance of way cranes and derricks

Tuesday	3-Sisters	8:00 a.m.-9:00 a.m.
Thursday	3-Sisters	1:00 p.m.-2:00 p.m.

This Clinic will explore the breadth and history of prototype Maintenance of Way Cranes and Derricks and provide some modeling notes and references to models created over the years.

m-o-w,prototype-modeling

Bunza, Geoff

Modeling with sound: Scale model animation for model railroading

Tuesday	3-Sisters	2:30 p.m.-3:30 p.m.
Thursday	3-Sisters	8:30 p.m.-9:30 p.m.

The use of sound in model railroading goes beyond DCC sound decoders in locos and cars. DCC sound decoders can also be customized for other models. Creating background layout sound has become easier to create, customize, and im-

plement too. This clinic will explore your options for adding sound to your models and layouts, using different approaches, techniques, sources, and players. Come and find out how you can make some new joyful noise!

animation,sound,dcc-sound-decoders,electronics

Bunza, Geoff

Modeling with movement: Scale model animation for model railroading

Tuesday	3-Sisters	1:00 p.m.-2:00 p.m.
Thursday	3-Sisters	7:00 p.m.-8:00 p.m.

Making things move is virtually synonymous with model railroading. But making things move realistically can go way beyond movement on rails. This clinic will review different mechanisms and means to add movement to scenes, buildings, cars and models to add visible "life" to your layout. Small, scale, smooth mechanisms can be built at low cost using a variety of techniques. Come see how you can move your world!

animation,electronics

Bunza, Geoff

Modeling with light: Scale model animation for model railroading

Tuesday	3-Sisters	9:30 a.m.-10:30 a.m.
Thursday	3-Sisters	2:30 p.m.-3:30 p.m.

Layout lighting was once relegated to headlights, coaches and "whole house" lights. The availability of bright, tiny, light emitting diodes (LEDs) and other new technology opens opportunities for modelers that go beyond the norm. This clinic will look into combining these LEDs with "new" materials and electronic control expanding modeling options even more. These dynamic lighting techniques can enliven scenes and layouts in a big way. Come and find out how to light your way!

animation,LED-lighting,electronics

Burgess, MMR, Jack

Photoshop Elements as a modeling tool

Wednesday	Mt. St. Helens	9:30 a.m.-10:30 a.m.
Thursday	Mt. St. Helens	8:00 a.m.-9:00 a.m.

The computer program Photoshop Elements can be just as useful in modeling as a Dremel tool or NWSL Chopper. This clinic will present ideas about using this program to enhance scanned prototype and layout photos, make scaled signs from graphics available on the web, and even make simple interior details. Some techniques are extremely easy (why didn't I think of that) while others are more complex.

A four-page clinic handout is available online at

yosemitevalleyrr.com/clinics

software-photography,tools,scenery-signs

Burgess, MMR, Jack

Using SketchUp and rapid prototyping

Wednesday	Mt. St. Helens	11:00 a.m.-noon
Thursday	Mt. St. Helens	9:30 a.m.-10:30 a.m.

How to use the free 3D drawing program SketchUp to make drawings and get the parts 'printed' using rapid prototyping technology. A four-page clinic handout is available online at yosemitevalleyrr.com/clinics

software-cad,modeling-3D-printing

Butts, MMR, Gary

Resistance soldering: The basics

Monday	3-Sisters	8:00 a.m.-9:00 a.m.
Friday	3-Sisters	10:00 p.m.-11:00 p.m.

This clinic will feature a brief review of resistance soldering theory followed by a practical demonstration of various soldering techniques using both pencil and tweezers type resistance soldering apparatus. We will discuss the use of solder flux, solder paste and normal wire solder. Following the demonstration we will have a "hands-on" solder session for those that would like to get some experience using the equipment.

Cameron, Ken***JMRI overview and current status***

Monday	Weidler	9:30 a.m.-10:30 a.m.
Tuesday	Sellwood	9:30 a.m.-10:30 a.m.

JMRI (Java Model Railroading Interface) is a "state of the art", open source program for model railroad hobbyists. JMRI is a suite of tools distributed via a single download. The presentation is targeted to show you the areas that JMRI may help you. Ken will briefly cover DecoderPro, PanelPro and Operations so you get a clear idea of the many features the software may provide.

JMRI,software-layout-control,signaling

Cameron, Ken***JMRI user group meeting***

Tuesday	Weidler	8:30 p.m.-11:00 p.m.
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This session will let users and developers of JMRI meet and explore possible directions for JMRI. Share your successes and problems with the group. Help the developers focus on the future features for JMRI.

JMRI,software-layout-control,user-forum

Catania, Chuck; Neumann, Seth***Designing a signaling system with cpNode (CMRI on Arduino)***

Thursday	3-Sisters	9:30 a.m.-10:30 a.m.
Saturday	3-Sisters	8:00 a.m.-9:00 a.m.

Chuck and Seth will describe their experiences designing and implementing Model Railroad Signaling Systems and how they have used the cpNode system they developed, to streamline the process. They will discuss power distribution and detection topologies, setting up signal locations, dividing the layout into blocks, cabling, cost optimization strategies and much more.

signaling,electronics,CMRI,LDSIG,OpSIG

Chandler, MMR, Mike***Reviving Strathmore as a modeling material***

Monday	Weidler	8:00 a.m.-9:00 a.m.
Wednesday	Mt. St. Helens	1:00 p.m.-2:00 p.m.

Through a slide presentation, Mike Chandler will demonstrate his techniques for scratch building structures with Strathmore, a model building material once commonly used in our hobby. Far from being 'old hat' Strathmore offers certain advantages over more contemporary materials particularly when constructing models of buildings with wood exteriors.

modeling-structures

Chubb, MMR, Bruce***Interfacing a computer to your model railroad***

Tuesday	Mt. Hood	9:30 a.m.-10:30 a.m.
Wednesday	Mt. Hood	8:00 a.m.-9:00 a.m.

Bruce explains how easy it is to interface a computer to your model railroad. Focus is on the Super Mini-Node that greatly improves I/O distribution and significantly reduces system cost. Up to 128 nodes can be distributed all around your layout making wiring a snap. Simply connect any device directly to the nearest node. Only wiring between nodes is a single 4-wire cable. Applications focus on reducing layout wiring, prototypical turnout control, broad range of signaling systems, staging track control, lighting, animation, automation and interfacing to DCC. The result can greatly increase your railroad's prototypical realism and hobby enjoyment.

CMRI,electronics,computers,signaling,automation

Chubb, MMR, Bruce***Prototype modeling the Pacific Northwest***

Monday	Mt. Bachelor	2:30 p.m.-3:30 p.m.
Thursday	Mt. Hood	11:00 a.m.-noon

Research for modeling and operating the SVOS was conducted

with the aid of more than 60 members of OPSIG, LDSIG and SP, SP&S, NP, UP and GN Railroad Historical and Technical Societies. With their assistance, a 5-drawer file cabinet is packed full of prototypical information now in use to accurately model every station, industry, tunnel, bridge, trestle and the general overall railroad right-of-way and its operation. For example, over 250 prototypically based structures are being created. As a thank you for the efforts expended, Bruce illustrates what is being accomplished and the resulting excitement achieved via prototype modeling.

layout-design,prototype-modeling,research,prototype-railroads,LDSIG,RPM

Chubb, MMR, Bruce

Sunset Valley Oregon System updates and operation

Monday	Mt. Bachelor	1:00 p.m.-2:00 p.m.
Thursday	Mt. Hood	9:30 a.m.-10:30 a.m.

Bruce and his crew of 38 are modeling ten prototype railroads operating in the Pacific Northwest in 1955. Features include the SP from Portland to Dunsmuir using the Siskiyou line, SP's Coos Bay branch, SP&S from Portland to Eugene, independent logging and mining operations, and the NP, GN, SP&S and UP operations into Portland. The system includes 7 classification yards. Up to 120 trains operate during a 24-hour simulated day. Prototypical fidelity with the system designed for super realistic operation is achieved. This fast moving, all color presentation provides an exciting status update and operational overview of this monumental effort.

layout-tour,layout-design,operation,prototype-modeling,operation-Prototypical,LDSIG,OpSIG,RPM

Chubb, MMR, Bruce

Signaling your railroad - Parts 1, 2, & 3

Tuesday	Mt. Hood	2:30 p.m.-5:00 p.m.
Thursday	Mt. Bachelor	2:30 p.m.-5:00 p.m.

Part 1 - Fundamental Concepts - Prototype and model

Bruce expands upon Signaling Made Easier series in MR and the Railroader's Application Handbook to cover adapting prototypical signaling to model railroading. ABS, APB and CTC signaling are discussed along with their impact on railroad operations. Clear differentiation is established between block and interlocking signals and speed versus route signaling. Signal placement, compatibility with DCC and how to drive different signal types are addressed. Bruce explains how to use the SMINI card coupled with the power of the computer to reduce layout wiring and system cost while maximizing system flexibility and prototype fidelity.

Part 2 - ABS, APB, turnout control, and grade crossing systems

Bruce explains optimized block occupancy detection and its application to Automatic Block Signaling (ABS). Then, Bruce clarifies how the prototype utilizes "Traffic Sticks" to determine directional movement across block boundaries to set up Absolute Permissive Block (APB) signaling thereby providing protection for bi-directional operation on the same track. The importance of "traffic sticks" in setting up grade crossing warning systems is discussed along with its utilization with a new Prototypical Grade Crossing Control (PGCC) card. Additional coverage includes prototypical turnout control and protecting hand operated switches in signal territory.

Part 3 - Centralized traffic control systems

Bruce explains CTC operations and how it can smooth traffic flow on your railroad. Typical operational scenarios are explained. Straightforward programming techniques make it is easy to "cut-paste-and-change-numbers" to set up a highly accurate C/MRI-based CTC system for any model railroad. Utilizing a standard set of callable subroutines makes the programming easy while maximizing prototype fidelity. Additionally, setting up entrance-exit interlocking plants is discussed along with using dynamic graphic interactive displays to emu-

late modern dispatching operations.
signaling,CMRI,electronics,RPM

Chubb, Janet; Chubb, MMR, Bruce

Both Sides of the Sunset Valley Story

Monday	Mt. Hood	9:30 a.m.-10:30 a.m.
Tuesday	Weidler	7:00 p.m.-8:00 p.m.

Married together for over 60 years, Janet has been caught up in the trials and tribulations with Bruce's obsession with trains. Together they have learned a great deal. It's this knowledge that both will be sharing including many pointers to the rail-roader and to the spouse on "How to make your love grow as the hobby grows." It's a two way street, this working together in life. Understanding and changes are required on both sides. This fast moving dynamic-dual all color presentation is designed to be entertaining and informative to both railroaders and non-railroaders. Attendance with your "significant other" is the best way to mutually benefit from observing "Both Sides of the Story." This is a presentation that everyone should enjoy attending. layout-design,prototype-modeling,research,prototype-railroads,LDSIG,RPM

Chubb, MMR, Bruce , Neumann, Seth

C/MRI 30th birthday celebration

Thursday	Mt. Bachelor	7:00 p.m.-9:30 p.m.
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2015 Marks the 30th anniversary of the C/MRI system as described by Dr. Bruce Chubb. This is a get-together with presentations by Dr. Chubb and some of the manufacturers supporting C/MRI and the proposed S-9.10 CMRI^{net} standard. In addition to the presentations there will be an opportunity for C/MRI users to introduce themselves and describe their layouts and projects. CMRI,user-forum

Clark, Robert A.

Passenger terminals and servicing facilities: Prototype examples

Monday	Mt. Bachelor	7:00 p.m.-8:00 p.m.
Tuesday	Sellwood	8:00 a.m.-9:00 a.m.

This clinic supplements my Layout Design clinic, focusing on the wide variety of facilities needed to service passenger trains at terminals, illustrated with track diagrams and slides of coach yards, Pullman buildings, commissaries, car washers, and mail and express buildings. Switching of terminals is described. A handout includes specifications for servicing platforms and utilities such as compressed air, steam, water, and electricity. trains-passenger,prototype-stations,research,LDSIG,OpSIG,RPM

Clark, Robert A.

Layout design with a passenger train emphasis

Monday	Mt. Bachelor	8:30 p.m.-9:30 p.m.
Tuesday	Sellwood	4:00 p.m.-5:00 p.m.

Track plans suggest how passenger terminal and main line layout design elements can be pulled together. Terminal layout design elements such as turning arrangements, express and mail facilities, and coach yard components such as car washers, servicing platforms, Pullman and commissary buildings, and craft shops will be covered. Main line elements discussed include junctions where trains are reassembled and through stations with passenger car setouts. trains-passenger,layout-design,prototype-stations,LDSIG,RPM

Comstock, Charlie

Photography - Beyond Snapshots

Saturday	Mt. Hood	9:30 a.m.-10:30 a.m.
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Charlie shares how to move from snap-shot quality layout photography to photos that look like the real thing. Updated! photography-video

Comstock, Charlie

Scenery - Making it real

Saturday	Mt. St. Helens	11:00 a.m.-noon
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Charlie shares some of his techniques for building highly realistic scenery on his HO scale Bear Creek and South Jackson layout.

scenery

Dance, Mark

8 bridges for the Columbia & Western

Monday	Mt. Hood	8:30 p.m.-9:30 p.m.
Friday	Mt. Bachelor	4:00 p.m.-5:00 p.m.

The CPR's Boundary subdivision is notable for having nearly a mile of bridges. The clinic describes how models of 8 of these bridges were researched, designed and constructed in a variety of materials from styrene to etched brass. Focus will be placed on selective compression, model design for strength, piers and abutments, painting, and designing bench work to allow easy installation many years later. A video run-by across all the bridges will end the seminar.

modeling-bridges,prototype-modeling,prototype-bridges,LDSIG,RPM

Dance, Mark

The Columbia & Western: Designed for Operation or "2500 vertical feet into a two car garage!"

Tuesday	Mt. St. Helens	9:30 a.m.-10:30 a.m.
Saturday	Mt. Bachelor	8:00 a.m.-9:00 a.m.

This clinic describes the Columbia & Western railway designed to replicate the CP's Kootenay divisions. The layout has 7 scale miles of mainline and a two mile branch in 350 square feet. Focus will be placed on track planning, on the double mushroom design and construction, and on various other mechanical features including swing gates and an indexing table. Finally the lake barge used to move complete trains between levels will be described.

layout-design,rail-marine,LDSIG,RPM

Decker, Bill

SP's Cascade crossing in HO scale: Design, construction, and initial operation of a dream

Sunday	Mt. Bachelor	4:00 p.m.-5:00 p.m.
Friday	Mt. Bachelor	2:30 p.m.-3:30 p.m.

The clinic describes the design process for a basement-filling dream layout focused on the prototype Cascade Line of the Southern Pacific. Occupying 2400 sqft of basement, it features of the route from Eugene to Cascade Summit and Crescent Lake. The design process will be described, including trade-offs and challenges, followed by construction and initial operations

layout-design,layout-tour,prototype-modeling,operation,LDSIG,OpSIG,RPM

Deis, Paul

Hazardous material markings on rail cars

Wednesday	Sellwood	9:30 a.m.-10:30 a.m.
Saturday	Weidler	11:00 a.m.-noon

You have observed the diamond shaped signs on rail cars. You may understand that they are there to warn of the possible hazards of the materials in that rail car. What you probably want to know is what are the correct markings or signs should be on the rail cars on my layout. With this clinic I will share with you a little history of the warning signs, now know as placards on railroad equipment. We will see what the correct placards are for what commodity in which era. We will start with the 1906 American Railway Association Regulations for the Transportation of Inflammable Articles and Acids and review the changes up to the current DOT regulations

rollingstock,hazmat,OpSIG,RPM

Draper, Barry

Installing and Working with Surface Mount LEDs

Sunday	3-Sisters	4:00 p.m.-5:00 p.m.
Monday	Weidler	10:00 p.m.-11:00 p.m.

LEDs have become popular in model railroading because they offer a bright, heat-free light source that should never burn out. Surface mount LEDs are tiny LEDs that can fit almost any-

where you need a light. But, how do you handle them, and how are you supposed to solder wires to them? Barry will show his techniques for working with and installing surface mount LEDs.

LED-lighting

Feeney, Kevin, Dr.

A Look at the Southern Pacific thru its annual reports: 1944 - 1969

Sunday Mt. St. Helens 2:30 p.m.-3:30 p.m.

As a public company, the SP issued annual reports to its shareholders that are readily available today. These reports are very useful to modelers in that they contain information about railroad operations, locomotives and rolling stock, facilities, paint schemes and various business dealings.

research,prototype-railroads,history,RPM

Ferenc, Jim

Scratchbuilding an animated coal mine

Wednesday Mt. Hood 1:00 p.m.-2:00 p.m.

Friday Sellwood 1:00 p.m.-2:00 p.m.

Monarch Mine on my HO scale C&S Northern Division needed a removable tipple structure with moving hoist cables to cover its live-coal loader mechanism. This clinic shows how to scratch build a very large animated coal mine tipple, head-frame, and boiler house to match prototype photos from the 1930s. Techniques include strip wood, styrene, and brass construction, and finishing with painting and weathering. Simple electronics and motors bring the model to life.

animation,modeling-structures

Ferenc, Jim

Modeling & Operating with Track Scales

Wednesday Mt. Hood 2:30 p.m.-3:30 p.m.

Every division yard and many large industries weigh freight with track scales. Based on 15 years operating experience on my HO Scale C&S Railway this clinic shows how to model railroad track scales. It includes traditional and modern scales, track arrangements, scale houses, and scale test cars. It also explains how to systematically integrate weighing into model railroad operations, including freight movements, scale certification, and car card/way bill systems.

animation,modeling-structures,commercial-clinic

Forsyth, Stuart

Modeling from Train Sheets ... because half the time it was too dark to take photos

Thursday Mt. Bachelor 8:00 a.m.-9:00 a.m.

This clinic shares the fascinating results of analyzing Cajon Pass trains sheets for May 1-7, 1945. Learn what a train sheet is; the FileMaker database built to analyze them; and what the sheets reveal-including the numbers, lengths, tonnages and speeds of the trains operated, and the types, numbers and assignments of the engines used to haul them. See a day in the life of a steam helper and the Summit operator. Learn how the railroad was run and the engines you need to model.

LED-lighting,OpSIG

Fowler, MMR, Don

N-ovations in N scale

Wednesday Weidler 11:00 a.m.-noon

Saturday Mt. St. Helens 8:00 a.m.-9:00 a.m.

Don's photo presentation will showcase his completed 16' x 20' DC/DCC N scale model railroad depicting Southern Pacific's operations in California from 1971 to 1996. Special features include an operating scale track, drive-in theater, signals, grade crossings, talking hot box detector and night lighting. His discussion will cover design concept, construction methods, special features and lessons learned throughout the process.

layout-tour,N-scale,animation

Freeman, Henry***Thinking outside the box: Designing the B&O Chicago Terminal RR***

Monday	Sellwood	4:00 p.m.-5:00 p.m.
Thursday	Mt. Bachelor	9:30 a.m.-10:30 a.m.

How do you model an urban railroad that served 500 industries with 60 switch crews a day in a 500 square foot space? This clinic includes the process of compressing elements of the 1956 prototype, the creative solutions to maximizing the available space for the HO-scale design and a look at the prototype research. You may find out that you have more room for your railroad than you think.

layout-design,prototype-modeling,LDSIG,OpSIG,RPM

Freeman, Henry***Introduction to prototype research***

Tuesday	Mt. St. Helens	8:00 a.m.-9:00 a.m.
Thursday	Mt. Bachelor	1:00 p.m.-2:00 p.m.

Learn how prototype research can improve your layout's design and operations. Discussion includes tips for researching time and place, types of prototype documents, ICC valuation records, the National Archives and the Library of Congress holdings, Sanborn Insurance maps and other sources of information in a digital world. Freeman's article Research in the Information Age appeared in Model Railroad Planning 2002.

research,layout-design,prototype-modeling,LDSIG,OpSIG,RPM

Frey, Robert***Measure your diesel horn***

Wednesday	3-Sisters	8:30 p.m.-9:30 p.m.
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Part 1: This clinic shows how to measure the continuous (RMS) sound level of your Diesel Horn with a Sound Level Meter. There is a proper way to report your Meter results to others.

Part 2: Measuring the true (RMS) voltage driven by a DCC Sound Decoder into a speaker system. Then calculating the wattage of the sign based on the impedance of your speaker(s) (4, 8, 16, or 32 ohms)

sound,electronics

Fugate, Joe***Model Railroad Hobbyist: Fun with trains***

Tuesday	Mt. Hood	8:30 p.m.-9:30 p.m.
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Come dialog with the hobby's leading all-digital magazine staff about this hobby we all love - having fun with trains! Learn about exciting new things coming from MRH, and get your questions answered or make your requests known for things you'd like to see covered on your specific hobby interests. We'll also be having some special give-aways!

hobby-future,hobby-media,commercial-clinic

Fugate, Joe***Meet the TrainMasters TV crew***

Tuesday	Mt. Hood	10:00 p.m.-11:00 p.m.
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TrainMasters TV - a top-quality internet TV channel for model railroaders - come meet the TMTV crew and learn about the new video projects they have on the drawing board. With over 100 new video titles produced so far - here's your chance to ask questions and let your voice be heard on what YOU would like to see TMTV put to video.

hobby-media,commercial-clinic

Geiger, MMR, Doug***Iron and Steel: the industry***

Monday	Sellwood	9:30 a.m.-10:30 a.m.
Tuesday	Mt. St. Helens	4:00 p.m.-5:00 p.m.

The steel industry has a rich history and formed the backbone of America's growth. And from moving raw ingredients to delivering finished product, steel has been an integral part of railroading. This clinic will provide you with a basic understanding of steel making processes and vocabulary. It will give

you a guide to the inner workings of rolling mills and some of the specialized railroad equipment found in and around a steel plant. Many references (both prototype and modeling) will be presented to enable you to accurately add this fascinating industry to your own layout. Although mostly a prototype clinic, modeling ideas will be injected as the presentation develops.

industry-steel,prototype-modeling,RPM

Getz, Charlie; NMRA Board and Officers

Meet the Leaders

Sunday Mt. Hood 2:30 p.m.-3:30 p.m.

An informal meet-and-greet session where you can hobnob with current NMRA officials.

NMRA

Getz, Charlie

Meet the Prez - the president of the NMRA that is...

Thursday Sellwood 7:00 p.m.-8:00 p.m.

Meet Charlie Getz, the NMRA president.

Bring your questions.

NMRA

Getz, Charlie

Annual NMRA business meeting

Thursday Sellwood 8:30 p.m.-9:30 p.m.

The annual business and membership meeting. Come see your elected officials a work and find out what's in the NMRA's future.

NMRA

Grivno, Cody

Model Railroader's Wisconsin & Southern project layout:

From concept to finished model railroad

Thursday Mt. Hood 2:30 p.m.-3:30 p.m.

Project layouts are a rich part of Model Railroader's history. Associate editor Cody Grivno gives you a behind-the-scenes look at the HO scale Wisconsin & Southern, the magazine's 2008 layout. In this clinic, Cody talks about the field research he and senior editor Jim Hediger conducted. Over the course of several months, the duo photographed locomotives, rolling stock, structures, and rail-served industries along the WSOR system. In addition to field research, the staff was able to learn more about the WSOR through its website, which contained a list of industries served, inbound and outbound traffic, aerial photos of select industries, and a detailed locomotive roster.

With the research complete, then managing editor (now Model Railroader Video Plus producer) David Popp designed the track plan and the staff selected industries to model. Once the layout was complete, an operating scheme was developed that provided plenty of on line action, as well as interchange with the Milwaukee, Racine & Troy.

layout-design,prototype-railroads,research,commercial-clinic,LDSIG,OpSIG

Grossman, Tom; Houtz, Alan

Iwata airbrush 101 (session A)

Thursday Weidler 1:00 p.m.-2:00 p.m.

Iwata airbrush 101 (session B)

Thursday Weidler 2:30 p.m.-3:30 p.m.

Learn basic airbrush skills to apply to your scenery, backdrops, locomotives and rolling stock, track and structures for a natural weathered look.

This highly informative one hour "Hands-On" workshop teaches you basic the basics of airbrush operation and maintenance. Topics will include airbrush types, air sources and paints. Attendees will learn basic airbrush techniques, practice simple control exercises. Note that there are 20 available seats for students. Spectators are welcome. The class will consist of 15-20 minutes of technical information followed by 30-40 minutes of hands on painting with an Iwata Eclipse gravity feed airbrush. All materials and supplies provided.

There is No Charge for this event.

CLASS IS LIMITED TO 20 PARTICIPANTS

Sign up is required!

Contact Tom Grossman at 719-268-9848 or send him email at tom@tagteamhobbies.com painting-airbrush,commercial-clinic

Grossman, Tom; Houtz, Alan

Iwata hands-on weathering workshop

Thursday Weidler 8:00 a.m.-noon

Learn basic airbrush skills. Airbrush your scenery, back drops, locomotives and rolling stock, track and structures for a natural weathered look.

This highly informative three hour "Hands-On" workshop teaches you basic and weathering airbrush techniques, what air sources to use, and what materials are compatible. The different types of paint available today and their uses, what working surfaces are suitable, their preparation, and the simple maintenance procedures that are required. Attendees will learn basic airbrush techniques, practice simple control exercises, and practice weathering. Attendees may bring their own piece of rolling stock or structure to weather, or one can be provided. Note that there are 20 available seats for students. Spectators are welcome. The class will consist of 30-45 minutes of technical information followed by two hours of hands on instruction with an Iwata Eclipse gravity feed airbrush.

Instructor: Alan Houtz There is No Charge for this event.

CLASS IS LIMITED TO 20 PARTICIPANTS - SPECTATORS ARE WELCOME First come first served!

For information, call 1-262-567-3190

E-mail alan.houtz@att.net painting-airbrush,weathering,commercial-clinic

Gurries, Mark

DCC basics

Thursday Mt. St. Helens 11:00 a.m.-noon

This clinic talks about the advantages of DCC over DC in operating and wiring your layout. It also covers the basic components used in DCC systems plus some basic notes on both decoder & layout wiring including mixing DC and DCC. Finally, a discussion about what you should think about in selecting a DCC system plus information showing pictures of various systems being offered. If you know nothing about DCC, this is the clinic to start with. DCC,OpSIG

Gurries, Mark

DCC wiring

Thursday Mt. St. Helens 1:00 p.m.-2:00 p.m.

This clinic talks about how the DCC system gets connected to you layout. It talks about the different type of wires used on the layout helping you understand what to do to maximize the success and reliability of the system. Both small and large layouts are discussed along with solving some unique wiring problems. No, you do not necessarily need to rewire your layout to enjoy DCC, but it helps to understand the big picture and know what to do when there is a problem. DCC,OpSIG

Gurries, Mark

DCC decoder install

Thursday Mt. St. Helens 2:30 p.m.-3:30 p.m.

This clinic talks about the DCC decoder which is a device that must be installed in every locomotive for the DCC system to work. Part of the installation involves the electrical connections for the track, motor, lights, and in some cases sound. Picking the right decoder can make a big difference in how easy this will be. With so many to choose from, this clinic will help you sort all this out and get you going. This clinic is not a demonstration clinic. DCC,OpSIG

Gurries, Mark

DCC decoder programming

Thursday Mt. St. Helens 4:00 p.m.-5:00 p.m.

This clinic talks about the DCC decoder which is a device that

must be installed in every locomotive for the DCC system to work. With the hardware installation done, now comes the most computer like part of the installation. Programming the decoder. Programming the decoder correctly is critical to its success but it is easier than you think. However since decoders come with so many options to set, this clinic will help you sort all this out and get you going.

DCC,JMRI,OpSIG

Gurries, Mark; Schutzer, Mark

NCE DCC clinic

Monday Mt. St. Helens 8:30 p.m.-11:00 p.m.

Presentation and discussion of all the various NCE DCC products, demonstrations, and Q&A.

DCC,user-forum

Gust, Steve , Kang, Rick

Train Dispatching Elements

Monday Sellwood 7:00 p.m.-8:00 p.m.

Train Dispatching (the issuance and modification of authority to occupy main track) is a critical piece of railroad operation. How can you apply this to your layout as a modeling element? We introduce and discuss essence of basic systems, clarify several misconceptions, and explain application to variety of layout types.

operation,operation-prototypical,OpSIG

Hall, MMR, Edwin

Painting a brass Southern Pacific cab-forward steam engine

Monday Mt. Hood 2:30 p.m.-3:30 p.m.

Wednesday Mt. Bachelor 9:30 a.m.-10:30 a.m.

Ed will show how to paint a Southern Pacific AM-2 Cab Forward. Discussion will include preparation of the brass for painting including simple solder techniques, disassembly, painting, making sure all electrical connections are intact, re-assembly and testing for proper operation.

painting-locomotives,brass-models,RPM

Hamilton, MMR, Jack

This is your first NMRA national convention

Sunday Mt. St. Helens 4:00 p.m.-5:00 p.m.

Monday Sellwood 8:00 a.m.-9:00 a.m.

Congratulations. You managed to find your way through the registration package, survived TSA (if you flew to get here), found the hotel, and actually got a room. You have cleared the Convention Registration Desk and received your 'packet'. Now what happens?

Come join with other 'first timers' to meet, bond with others in your predicament, and get some practical guidance on how to survive the next week and get what you hope to get out of the convention experience. There will be some hints and tips about scheduling you convention time, working in the meals, and figuring out how to get some sleep in places other than clinics. This gathering will also introduce you to a few people you may need to find throughout the week and provide you some points of contact for convention assistance.

misc

Hamilton, MMR, Jack

Clinics that work at public events

Monday 3-Sisters 9:30 a.m.-10:30 a.m.

Tuesday 3-Sisters 10:00 p.m.-11:00 p.m.

We go to train shows to run trains and to have fun. Our visitors come to see the trains run and, if the opportunity presents itself, to learn something about model railroading as a hobby. How to impart that awareness in the short time window available has always been a problem. Jack is going to take you through three 'Make-and-take clinics' that lend themselves to public events, are inexpensive, have low manpower requirements, and turn out to be big draws for the visitors. Two of the clinics have been featured with good success at various PNR events while the third is imported from 'down under'. You will see what you need to put on the clinic, learn how it works, see

the actual clinic set up, and leave with the list of materials and procedures so you can make of go of it at your next event. Learning how to prepare for and actually hold a public event clinic is critical to our NMRA recruiting effort and the continued success of the hobby.

misc

Hamilton, MMR, Jack

What's in my toolbox

Monday	3-Sisters	8:30 p.m.-11:00 p.m.
Saturday	Sellwood	1:00 p.m.-3:30 p.m.

Every modeler starts with a few basic tools and gradually grows a 'tool box' of items that work for them and make the quality of their modeling better. Along the way, they may find unique uses for items commonly found around the house but seldom in the workshop. They also have the pleasure of spending money on those 'perfect' tools that turn out to be a flop. Jack, a self-confessed tool junkie, will go through his very unique collection of tools that he has accumulated over 50 years of modeling. You may be intrigued by some of the unusual finds, his sources, and his advice on some tools that are just not worth it. As an added incentive, this clinic has door prizes for a lucky few.

tools

Hamm, MMR, Bob

How to judge the NMRA contest

Monday	Weidler	2:30 p.m.-3:30 p.m.
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National Contest Chair, Bob Hamm, MMR, explains the Ins and Outs of judging the NMRA contest using the AP Judging Guidelines. Mandatory for new judges.

NMRA

Hanley, Don

Building a layout in a hostile environment

Monday	Sellwood	2:30 p.m.-3:30 p.m.
Saturday	Mt. Bachelor	9:30 a.m.-10:30 a.m.

Overcoming environmental problems to build a layout in a garage while sharing the space with the family car, and wood working tools. Things to take into consideration including temperature change, dust and dirt, and how I solved the problems. The methods used can are also applicable to basement layouts.

layout-construction,LDSIG

Harris, David

OpenLCB/NMRA LCC - Overview and Current Status

Wednesday	Sellwood	4:00 p.m.-5:00 p.m.
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See Baker, Stuart for description.

Harris, David

OpenLCB User's Group Meeting

Wednesday	Sellwood	7:00 p.m.-8:00 p.m.
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See Baker, Stuart for description.

Harris, David; Racz, Balazs

NMRA LCC (Layout Command Control) from the user's perspective

Wednesday	Sellwood	8:30 p.m.-11:00 p.m.
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This clinic is a series of demonstrations on how to set up, wire, and configure layouts using LCC hardware. We focus on the user benefits of LCC, and how working with LCC hardware looks for a typical modeler, from unboxing to an operating layout.

The examples we will cover are the following:

1. Simple accessory control with output devices: turnouts, signals, uncouplers.
2. Creating fascia-mounted panels with input devices.
3. Creating software panels using JMRI.
4. Adding block detection with input devices.
5. Configuring a railroad crossing with detection, signaling and sound.
6. Configuring ABS signaling.

7. Modular layouts: automatic discovery of module sequences for ABS signaling. LCC,NMRAnet

Hauff, Steve

Portland's Steel Bridge

Tuesday	Mt. Hood	7:00 p.m.-8:00 p.m.
Wednesday	Weidler	2:30 p.m.-3:30 p.m.

A brief history of the century-old Steel bridge which crosses the Willamette River in Portland. The bi-level bridge is rare in its design, with the lower level capable of telescoping into the upper level. The railroad occupies the lower level while trolleys, traffic, and light rail have crossed the upper deck.

prototype-bridges,RPM

Hauff, Steve

Loggers and logging railroads

Monday	Mt. Hood	11:00 a.m.-noon
Tuesday	3-Sisters	11:00 a.m.-noon

Logging railroads were the mainstay of railroading in the Pacific Northwest for many years. Many thousands of miles of logging lines snaked their way into the dense timber. This is a quick overview (occasionally truthful) of the railroads, the train crews and the men who harvested the timber.

logging,prototype-railroads,RPM

Hauff, Steve

The Willamette locomotive

Wednesday	Sellwood	8:00 a.m.-9:00 a.m.
Thursday	Sellwood	4:00 p.m.-5:00 p.m.

From 1922 until 1929, the Willamette Iron and Steel Company of Portland, Oregon built a series of 33 geared locomotives in direct competition with the Shay. This clinic tells the history of the Willamette and its evolution through its production history.

prototype-locomotives,geared-locomotives,RPM

Hauff, Steve

The Spruce Production Division

Wednesday	Mt. Bachelor	4:00 p.m.-5:00 p.m.
Thursday	Sellwood	8:00 a.m.-9:00 a.m.

In 1918, the US Army embarked on a project to secure aircraft grade spruce for the production of military aircraft. This clinic focuses on one of the Division's more ambitious projects, the construction of 39 miles of mainline railroad, 70 miles of logging spurs and two sawmills in Clallam County, west of Port Angeles, Washington.

logging,forest-products,prototype-railroads,RPM

Henderson, Byron; Neumann, Seth

LDSIG Bootcamp

Monday	Mt. Bachelor	8:00 a.m.-noon
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An intensive 4-hour session on track planning sponsored by the Layout Design SIG. Discover how to refine vision, concept and purpose; select layout footprints and schematics; draw accurate and useful plans; create efficient and engaging yards and industrial areas; make best use of staging tracks; maintain space for people; and avoid common track planning errors.

layout-design,LDSIG,OpSIG

Henderson, Byron

Small Layout Design - Beyond the Timesaver

Monday	Weidler	7:00 p.m.-8:00 p.m.
Tuesday	Mt. Hood	11:00 a.m.-noon

Over the years, many small layouts have been designed to focus on maddening puzzles and tricks. But these can rapidly become boring and repetitive. However, operation on small layouts can be challenging, fun, and prototype-inspired. The key is taking care to include layout design "best practices" even in small layout design. Join a custom layout designer for new ideas in small spaces.

layout-design,LDSIG,OpSIG

Hobbs, Paul***TTX - An unnoticed giant***

Monday	Mt. St. Helens	2:30 p.m.-3:30 p.m.
Tuesday	Mt. St. Helens	11:00 a.m.-noon

Trailer Train was formed in 1955 by Pennsylvania Railroad and Norfolk and Western Railway to provide a pool of flat cars for the emerging Trailer on Flat Car (TOFC) business. By 1960 Trailer Train was operating autoracks, later also containers. Renamed TTX in 1991, the company is today operating more than 200,000 cars, one of the largest fleets in North America.

prototype-leasing,trains-freight,research,RPM

Hobbs, Paul***You thought prototype research might be fun***

Monday	Mt. St. Helens	1:00 p.m.-2:00 p.m.
Tuesday	Sellwood	8:30 p.m.-9:30 p.m.

Researching the prototype railroads can enhance our modeling in many ways. We will explore and review many available resources, their significance to the industry, and usefulness to our hobby activities. Examples from personal research into the history of the Spokane, Portland & Seattle Railway will be included.

research,prototype-railroads,RPM

Hopkins, Ron***Fabricating structure details with styrene***

Wednesday	Mt. Hood	9:30 a.m.-10:30 a.m.
Saturday	Mt. Hood	8:00 a.m.-9:00 a.m.

Styrene, cover glass, and simple jigs are used to fabricate windows, doors, chimneys, and corbels of specific prototype dimensions.

modeling-structures,scratch-building

Houtz, Alan***Iwata airbrush 101 (sessions A and B)***

Thursday	Weidler	1:00 p.m.-2:00 p.m.
Thursday	Weidler	2:30 p.m.-3:30 p.m.

See Grossman, Tom for description.

Houtz, Alan***Iwata hands-on weathering workshop***

Thursday	Weidler	8:00 a.m.-noon
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See Grossman, Tom for description.

Houzvicka, Frank***Behind the scene at Miniatur Wunderland***

Sunday	Sellwood	4:00 p.m.-5:00 p.m.
Tuesday	Weidler	4:00 p.m.-5:00 p.m.

This clinic will take you behind the scene of the world's largest model railroad, Miniatur Wunderland in Hamburg, Germany. You will see how they develop the scenes, structures, and figures for the layout; how they control the layout; how they keep the water clear and prevent a flood; how they control the scale model ships; how they maintain and control the hundreds of vehicles; how they control the aircraft; where they go after takeoff; and what's coming next.

layout-tour

Houzvicka, Frank***The European N scale convention***

Monday	Sellwood	11:00 a.m.-noon
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For the past several years the organization 'N Club International' has held a European N scale convention in Stuttgart, Germany, in conjunction with the trade show 'Modell Bau Sud'. Clubs from as many as nine countries set up their modules in a huge interconnected layout. This clinic will provide an overview of the skill and variety displayed by the clubs from across Europe including: Austria, England, France, Finland, Germany, Italy, Norway, Sweden, and Switzerland.

N-scale,layout-tour

Huberman, Dan; Smith, Don

Manufacturing - how, what, when, where, and why

Thursday Sellwood 9:30 a.m.-10:30 a.m.

Friday Weidler 7:00 p.m.-8:00 p.m.

Introducing the new Canpotex 4300 cu. ft. 3-bay hopper, decorated for PDX 2015. The release of this car is timed to coincide with the opening of the new Portland Canpotex potash facility.

Don Smith and Dan Huberman of North American Railcar will share with you the details of how the Canpotex hopper is manufactured.

rollingstock,commercial-clinic

Ingraham, Paul

Micro Macro Modularity: using the modular concept in layout design

Sunday Mt. Hood 1:00 p.m.-2:00 p.m.

Friday 3-Sisters 8:30 p.m.-9:30 p.m.

Integrating the modular concept with other layout design tools allows modelers to create prototypical layouts that can evolve for a lifetime. It helps focus the modeler's attention on the essential functions of a railway. Applying the concept to internal elements on the layout further enhances the concept. It is the best combination of practicality and value for money for today's mobile lifestyle.

layout-design,LDSIG

Ingraham, Paul

Modeling Asian Railways in N Scale

Saturday Mt. St. Helens 2:30 p.m.-3:30 p.m.

Asian railways are more than bullet trains! See model temples, rice paddies, a Taiwan branchline. Locate equipment you can adapt for that Korean or Thai railway you've always craved! Whatever your prototype or scale, you're sure to gain insight into finding sources for the unusual. Be sure to visit the LD/OPSIG room to see the AsiaNRail modular layout that accompanies this clinic presentation!

layout-design,foreign-railroading,N-scale,LDSIG

Ireland, AJ; Ireland, Zana

Digitrax User Forum

Thursday Mt. Hood 7:00 p.m.-9:30 p.m.

A.J. and Zana Ireland from Digitrax host their annual User Forum for Digitrax users. A brief presentation of new products for the past year is followed by an extended question and answer period.

user-forum,DCC,commercial-clinic

Ireland, Jarrette

Braking, Switching, Running: Railroading with Tsunami Decoders

Saturday Mt. Hood 4:00 p.m.-5:00 p.m.

From auto-synchronizing exhaust to full train line braking, learn how SoundTraxx Tsunami Digital Sound Decoders can enhance how you run your railroad. SoundTraxx rep Jarrette Ireland will use prototypical scenarios to demonstrate the many features built into Tsunami decoders for locomotives and rolling stock. He will also showcase the Tsunami SoundCar and its new Intelligent Consisting feature, which makes consisting a breeze with the "wave of a wand". Be sure to bring your DCC questions!

DCC,dcc-sound-decoders,sound,commercial-clinic

Jameson, William

Basic electronics for model railroads

Wednesday Mt. Bachelor 7:00 p.m.-8:00 p.m.

Friday Sellwood 7:00 p.m.-8:00 p.m.

Over the past 20 years, model railroading has moved into the 'electronic' age, with the wide spread use of DCC, computer control, and signaling. Learn the basics of electronic theory, what all the different components are and what they are used for. Some of the things that will be covered are the wire size

for the layout, the different formulas' that you will need (how to figure out what size resistor to use for dropping the voltage to the headlight), and the tools that you will need to troubleshoot your railroad.

electronics

Jameson, William

Document your layout!

Wednesday Mt. Bachelor 8:30 p.m.-9:30 p.m.

This clinic is useful to ALL modelers, regardless of scale. The clinic will cover all the items that need to be documented. It will cover what to document and how to document it, for example; wiring, inventory, and other items that concern your layout that you need to have handy in an emergency. Do you know how much your model railroad is worth if you had to replace it? Do you remember how you wired the diode matrix for the yard or where all the isolated rail joints are? If you answered 'NO' to these questions, then you should attend this clinic

misc

Johnson, Greg

Designing and building the T&NO in East Texas

Monday Sellwood 8:30 p.m.-9:30 p.m.

Thursday Mt. Bachelor 11:00 a.m.-noon

The clinic describes the research, design decisions and construction techniques used in building my N scale railroad. Research elements include the use of Sanborn maps, photographic references, site visits and railroad timetables and artifacts. Construction techniques discussed include the unique use of Gatorfoam for all bench top construction. The layout was featured in Model Railroad Planning 2015 and N Scale Railroading Magazine in 2013.

layout-design,layout-construction,prototype-modeling,LDSIG

Johnston, Jeff

Enjoy more modeling fun with silicone molds and urethane casting

Sunday 3-Sisters 1:00 p.m.-2:00 p.m.

Thursday 3-Sisters 11:00 a.m.-noon

The use of silicone molds and urethane plastic to cast parts can be a boon to your hobby enjoyment. In many cases, when you have a need for duplicate parts, urethane castings will save you hours of effort. Clinician Jeff Johnston explains and demonstrates the step-by-step process in a fun and easy to understand manner.

molds-and-casting,prototype-modeling,RPM

Johnston, Jeff

Pains and pleasures: Prototype modeling the Sugar Pine Lumber Company

Sunday Mt. Hood 4:00 p.m.-5:00 p.m.

Thursday 3-Sisters 8:00 a.m.-9:00 a.m.

Jeff and Pam Johnston model the Sugar Pine Lumber Co. / Minarets & Western Rwy. circa September 1927. In this clinic Jeff presents a look at what it takes to be a prototype modeler of a relatively obscure company. Historic photo and blueprint research, location visits, use of existing models, plus kitbashing and scratch building are all part of the run package.

logging,forest-products,prototype-modeling,research,RPM

Judge, Robert

Controlling 280 Turnout Servos using fascia mounted panels

Sunday 3-Sisters 2:30 p.m.-3:30 p.m.

Friday Weidler 10:00 p.m.-11:00 p.m.

This clinic presents one solution to controlling a large amount of turnouts and crossovers using mounted servos. The servos are controlled using pushbuttons located on fascia mounted panels. The electronics needed to drive the servos and to provide led lighted track routing on the panels will be clearly explained and demonstrated. There will be a step by step procedure that shows how to map the turnouts from a sample branch

line track plan to the panel push button controls and to all the electronics and logic needed for successful operation.

Kang, Rick

Train Dispatching Elements

Monday	Sellwood	7:00 p.m.-8:00 p.m.
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See Gust, Steve for description.

Kaufman, Bill

Modeling the State Belt

Monday	Mt. Bachelor	10:00 p.m.-11:00 p.m.
Thursday	Mt. Hood	8:00 a.m.-9:00 a.m.

I was interested in the State Belt as a possible prototype to model long before I wrote the book, but the research influenced the layout. What did I learn and how I applied it to the layout is the subject of the clinic. I had two goals: recreating the San Francisco waterfront and realistic operations based on WWII. I made choices both about the design and about the operations to make this idiosyncratic fit into a 12' by 12' footprint. prototype-modeling,layout-design,layout-tour,research,LDSIG,RPM

Kaufman, Bill

The State Belt railroad

Monday	Mt. St. Helens	4:00 p.m.-5:00 p.m.
Tuesday	Weidler	2:30 p.m.-3:30 p.m.

Beginning with a couple of crooks in the 1860's (Crooks in San Francisco? Say it isn't so) the clinic tells the history of the railroad that ran along San Francisco's Embarcadero from AT&T Park to Fisherman's Wharf and the Presidio. From 1892 to 1992, the State Belt serviced the piers and industries all along the waterfront. It only existed to switch cars and spent a part of the 1920s and 1930s trying to convince the Supreme Court of the United States that it wasn't a railroad at all. The quintessential switching road in a historic location.

prototype-railroads,research,LDSIG,RPM

Keena, James

Weathering freight cars

Thursday	Weidler	4:00 p.m.-5:00 p.m.
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This is a hands on make and take clinic where James will demonstrate various techniques for weathering freight cars. Various weathering supplies will be available for use during the clinic. Each participant will be provided a freight car to weather themselves. Clinic will cover the use of paints and their applications as washes, stippling and dry brushing. Includes the use of alcohol and India ink washes and wet and dry application of weathering powders weathering,RPM

Keena, James

Easy to make flat car and gondola loads

Thursday	Weidler	7:00 p.m.-8:00 p.m.
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This is a hands on make and take clinic where James will demonstrate making flat car and gondola loads from readily available everyday items. Supplies will be provide so that each participant will be able to make and take their own lumber, pipe or railroad tie load rollingstock,car-loads,RPM

Kempinski, Bernard

Model Railroads go to war

Wednesday	Mt. Hood	7:00 p.m.-8:00 p.m.
Friday	Weidler	2:30 p.m.-3:30 p.m.

From the primitive 19th century iron horse to the thundering diesels of today, railroads have played an important part in enabling, changing, and sometimes inciting warfare. This talk is an overview of how railroads served in America's wars, and how to apply this information to design and build operating model railroads. Starting with the Crimean War in 1855 and extending to current times, the talk features prototype photos, maps and plenty of examples of world class modeling. It puts

special emphasis on the US military in the American Civil War, WWI, WWII and Gulf Wars.

history,research,prototype-modeling,LDSIG,RPM

Kempinski, Bernard

The USMRR Aquia Line: Modeling a Civil War Railroad

Wednesday Mt. Hood 8:30 p.m.-9:30 p.m.

Friday Weidler 4:00 p.m.-5:00 p.m.

An in-depth look at the background, design, construction and lessons learned in building a model railroad layout of the US Military Railroad Aquia Line in 1863 in Virginia in O Scale.

layout-design,layout-construction,prototype-railroads,prototype-modeling,LDSIG,RPM

Klettke, Kevin

Time saving fleet weathering

Tuesday 3-Sisters 7:00 p.m.-8:00 p.m.

Thursday 3-Sisters 10:00 p.m.-11:00 p.m.

This clinic will focus on realistic weathering for those you can't or don't have the time to spend many hours per car when it comes to weathering a freight car fleet. I will be showing time-saving techniques for achieving good looking, realistic results using a variety of mediums. Some highlights to include weathering an entire 18-car, HO scale unit coal train in a handful of hours. Paint fading without an airbrush. Underbody weathering. And many other miscellaneous time-saving tips.

weathering,painting-rollingstock,RPM

Koester, Tony

Creative structure kitbashing

Tuesday Mt. St. Helens 8:30 p.m.-9:30 p.m.

Thursday Mt. St. Helens 8:30 p.m.-9:30 p.m.

Model Railroader contributing editor Tony Koester recently added a large number of structures, many of them kitbashed, to his 1954-era HO railroad in preparation for the December 2014 MR feature on his railroad and a follow-up MR Video Plus shoot. He'll discuss disguising a kit's heritage, Americanizing European buildings, using a new roof to change a kit's appearance, making stores more realistic by doubling their length, and other ways to save time while enhancing realism.

modeling-structures,kitbashing

Koester, Tony

Update on the Nickel Plate

Tuesday Mt. Bachelor 7:00 p.m.-8:00 p.m.

Thursday Mt. St. Helens 7:00 p.m.-8:00 p.m.

Model Railroad Planning editor Tony Koester recently completed a lot of scenery, including various types of farm crops, and structures for his 1954-era HO railroad in preparation for the December 2014 MR feature on his railroad and a follow-up MR Video Plus shoot. He'll discuss recent enhancements such as automated interchanges with 'foreign' railroads, automated 'Interlocking in a Box,' more realistic but easy-to-use waybills, timetable and train-order operations, digital-photo backdrops, and weathering with PanPastels.

layout-tour,operation-prototypical,weathering,backdrops,LDSIG,OpSIG,RPM

Kooning, MMR, Clark

NMRA Canada Membership Meeting

Monday Washington 6:00 p.m.-7:00 p.m.

The NMRA Canada annual membership meeting. Q and A session and discussion of NMRA and Canadian interests. NMRA

Lewis, MMR, Dan

Finishing and detailing structures

Monday 3-Sisters 1:00 p.m.-2:00 p.m.

Wednesday Weidler 9:30 a.m.-10:30 a.m.

This clinic addresses kit-bashing or cross-kits, super-detailing, scratch-built additions, and painting and weathering techniques with a variety of media, such as, wet-in-wet, dry-brushing, stains, the use of spray bombs, chemical reactions of alcohol

and solvents, dry pigments, Prisma markers, the special treatment of windows (boarded, bricked, broken glass), brick mortar, etching metal foil, roofs, detailing, signage and the tools involved. modeling-structures,kitbashing,painting-structures,weathering,superdetailing

Lewis, MMR, Dan

Running cattle and other beasts

Tuesday	Sellwood	8:30 p.m.-9:30 p.m.
Wednesday	3-Sisters	1:00 p.m.-2:00 p.m.

This clinic addresses the prototype practices of railroading and livestock. It will cover the distinctive features of stock cars, stockyard structures (corrals and loading chutes), special conditions and railroad rules for stock-handling (feeding, watering, rest stops), stock days and stock extras, seasonal movements, the large stockyards (Chicago, Omaha, Milwaukee, etc.) and stock selling and buying. The clinic climaxes with tips on modeling the stock traffic and industry.

livestock,modeling-structures,prototype-modeling,RPM

Lewis, MMR, Dan

Operations 101 - becoming an operator

Tuesday	Mt. Bachelor	11:00 a.m.-noon
Thursday	Sellwood	10:00 p.m.-11:00 p.m.

If you want to begin operating, this clinic is for you! It covers how to run a freight train, reading a Timetable, how to perform on-line switching moves (both facing and trailing point spurs), communication systems, clearances, OS-ing, yard operations (classifying cars), running passenger trains and guest etiquette.

operation,TTTO,OpSIG

Lewis, MMR, Dan

Operations 201 - Preparing to host operations

Tuesday	Mt. Bachelor	2:30 p.m.-5:00 p.m.
Thursday	Sellwood	1:00 p.m.-3:30 p.m.

This clinic is a Two-Part presentation directed toward the hosts of operating sessions. While it is largely oriented around Timetable and Train Order operation, much in the clinic will be applicable to other systems as well. In **Part 1** the clinic addresses towns, yards, stations, staging and connecting to the larger railroad world, industries and types of trains. In **Part 2**, it addresses car forwarding, the ops jobs (road crews, yardmasters and dispatching), balancing the schedule and what operators take for granted (but you shouldn't).

operation,TTTO,OpSIG

Lovely, John

Populate your passenger trains

Monday	Weidler	4:00 p.m.-5:00 p.m.
Wednesday	Mt. Bachelor	11:00 a.m.-noon

Add (virtual) passengers to your passenger trains.

trains-passenger

Lovely, John

Outdoor Railroading - Taking the hobby to new dimensions

Wednesday	3-Sisters	2:30 p.m.-3:30 p.m.
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An introduction to outdoor railroading. Scales, gauges, engine/train types, building equipment, clubs, and activities.

outdoor-modeling

Lovely, John

Railroad Flagging - Visual communication on real railroads.

Friday	Mt. Bachelor	1:00 p.m.-2:00 p.m.
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How the real railroads use visual communications past and present. Add these to your model operations to have more fun.

operation,operation-prototypical,signaling,OpSIG

Madsen, Greg

JMRI DecoderPro: A conceptual overview

Monday	Weidler	1:00 p.m.-2:00 p.m.
Tuesday	Sellwood	1:00 p.m.-2:00 p.m.

Greg will present a conceptual overview of DecoderPro and the Java Model Railroad Interface (JMRI). Rather than dive

into lots of technical details and how to use DecoderPro, Greg will explain what it does and why you would want to use it. While specific examples are based on the Digitrax system, the concepts are applicable to all DCC systems JMRI,dcc-decoders

McGuirk, Martin

Modeling the October season

Thursday	Mt. Hood	10:00 p.m.-11:00 p.m.
Friday	Mt. Hood	8:30 p.m.-9:30 p.m.

For the modeler who's tried to capture fall colors on a layout but found the results less than convincing. Although the focus is on Eastern US and Canada autumn scenery, many of the techniques and materials apply to any season or region of the country. Clinic will cover the importance of a believable over-all color tone, modeling fields and pasture land by effectively blending static and other grasses to avoid a "golf course" look, background trees, and foreground trees "two ways."

scenery,prototype-modeling,RPM

McRee, Duncan

Adventures in Dead Railing the HO/HOn3 Donner Summit

Monday	Mt. Hood	8:00 a.m.-9:00 a.m.
Wednesday	Mt. St. Helens	10:00 p.m.-11:00 p.m.

I have been a member of the Dead Rail Society for several years, a group in San Diego area devoted to running trains by wireless DCC and battery power. The availability of lithium-polymer batteries and smaller radios has made this method of running trains, common for many years in larger scales, available in the smaller scales. I recently converted my Donner Summit HO/HOn3 layout completely to Dead Rail and removed all the track feeders so there is no power on the rails. In this clinic I will discuss the pros and cons of this move and how it has effected operations both positively and negatively. I will also discuss the design and construction of the layout which is based on an HO version of the Southern Pacific and an HOn3 representation of the Nevada County Narrow Gauge Railroad. Disclaimer: I am the owner of Tam Valley Depot which manufactures and sells the DRS1 radio system discussed in the clinic.

battery-power,electronics,OpSIG

Merrin, Ed

The Northwestern Pacific - Challenges and rewards of modeling a prototype railroad

Wednesday	Mt. St. Helens	4:00 p.m.-5:00 p.m.
Friday	Sellwood	2:30 p.m.-3:30 p.m.

Over the last decade I have been building and operating a medium sized garage layout based on the 1958-1960 Northwestern Pacific in Northern California. Several previous clinics covered the design philosophy of producing an operating, not static, representation of this prototype. This clinic extends the discussion to specific areas, largely equipment and scenic issues, where special effort was required to achieve this goal.

layout-tour,prototype-modeling,LDSIG,OpSIG,RPM

Mindheim, Lance

Achievable Realism

Monday	Mt. St. Helens	9:30 a.m.-10:30 a.m.
Tuesday	Sellwood	2:30 p.m.-3:30 p.m.

A discussion of the elements that go into making our models and scenes more realistic. Simple, high impact ideas will be addressed. Emphasis on color treatment and scene composition.

scenery,scenery-details,prototype-modeling,RPM

Moignard, Mick

Modeling Blast

Friday	Weidler	8:30 p.m.-9:30 p.m.
Saturday	Mt. St. Helens	9:30 a.m.-10:30 a.m.

Drink at the firehose: 60+ modeling tips in 60 minutes. Tips from the UK, but applicable world-wide, cover layout building

ideas, soldering, general modeling, DCC, painting and finishing models, and ideas for when it all goes a bit stale. Take some of these tips home and try them for yourself straight after the convention.

hints-and-tips

Moignard, Mick

Getting the best from the Soundtraxx Tsunami

Wednesday	3-Sisters	7:00 p.m.-8:00 p.m.
Saturday	3-Sisters	11:00 a.m.-noon

Come to this clinic to find out how to make the Soundtraxx Tsunami sing for you. While mostly about programming, and biased towards steam rather than diesel locomotives, this clinic offers a number of installation tips, and discusses locomotive operating strategies that will increase your enjoyment of your Tsunami-equipped locomotives. We'll even mention Soundtraxx's SoundCar decoder and explore how to make that co-operate and run with a Tsunami-equipped locomotive at the head of the train.

dcc-sound-decoders

Morden, Bruce

Using Sanborn maps and aerial photos for layout design

Monday	Mt. Bachelor	4:00 p.m.-5:00 p.m.
Tuesday	Weidler	11:00 a.m.-noon

Layout design based on research from Sanborn Insurance maps, aerial photos, railroad maps, and USGS topographic maps. Some examples that I used on my model railroad as well as some areas close to the convention will be presented. Sources for your own use and exploration will be provided. A great way to study the prototype for design and operation.

layout-design,research,LDSIG

Muff, MMR, Nicholas

Westside Lumber Company adventures - 1960-1963

Monday	Mt. Hood	1:00 p.m.-2:00 p.m.
Wednesday	Mt. St. Helens	7:00 p.m.-8:00 p.m.

My friends and I made several trips to the Westside Lumber Company before and after the mill closed. Finally we built our own powered railcar and travelled the entire length of the line from Tuolumne to Camp 45 and Camp 40. We took over 1000 photos.

history,prototype-railroads,logging,research,prototype-modeling,RPM

Muff, MMR, Nicholas

Lighting HO scale vehicles

Monday	Mt. Hood	7:00 p.m.-8:00 p.m.
Wednesday	Mt. St. Helens	8:30 p.m.-9:30 p.m.

Downtown Kansas City on my layout is designed for night, as well as day viewing. The streets are filled with over 150 vehicles, all but a few of which have working headlights and tail-lights. Even motorcycles are lit. I will share my techniques.

LED-lighting,layout-lighting

Murphy, Dennis

Getting Published - A guide to getting your photos and ideas out in our hobby

Saturday	3-Sisters	1:00 p.m.-2:00 p.m.
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Ever want to see your name in print? Want to see your photos in a magazine? Want to make a (VERY) little money while doing something very fun? Well. come spend some time with me. This clinic is an hour of easy talk on how to get your ideas and photos published. We will talk about how to put together a simple article, and I will give you some thoughts on how to present your ideas to a publication. We will also cover some ideas about photos and how to "package" your submission for the highest chance of actually being taken seriously.

misc,hobby-media

Murphy, Dennis

Micro color cameras for your trains

Saturday	3-Sisters	9:30 a.m.-10:30 a.m.
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Have you ever wanted to actually ride inside your trains? Have you wanted to see exactly how "real" your structures and scenery is? Well, now you can with these fun wireless Micro Color Camera. I will walk you through some of the fun and trials I have had with them.

photography-video

Neumann, Seth

LDSIG Bootcamp

Monday Mt. Bachelor 8:00 a.m.-noon

See Henderson, Byron for description.

Neumann, Seth

C/MRI 30th birthday celebration

Thursday Mt. Bachelor 7:00 p.m.-9:30 p.m.

See Chubb, Bruce for description.

Neumann, Seth

Phones for Ops - updated!

Tuesday Weidler 8:00 a.m.-9:00 a.m.

Thursday Sellwood 11:00 a.m.-noon

Seth Neumann will review the requirements for an operations communications system and take you through the design process and show you how to implement a reliable telephone system for dispatching any era from the 1870s through the 1980s using your choice of inexpensive telephones or period equipment. The emphasis this year is on low cost electronic replacements for hard-to-find vintage parts. electronics,telephones,OpSIG

Neumann, Seth

LDSIG panel: What would you do differently?

Thursday Mt. Bachelor 10:00 p.m.-11:00 p.m.

I will moderate a panel of 4 or 5 local layout owners, hopefully, SIG Tour hosts, and pose a series of topics about lessons learned about design, construction and operation. We usually record this so we can share the transcript in the LDJ.

layout-design,LDSIG,OpSIG

Neumann, Seth

Designing a signaling system with cpNode (CMRI on Arduino)

Thursday 3-Sisters 9:30 a.m.-10:30 a.m.

Saturday 3-Sisters 8:00 a.m.-9:00 a.m.

See Catania, Chuck for description.

Nicholas, Lee

Utah Colorado Western update

Monday 3-Sisters 7:00 p.m.-8:00 p.m.

Thursday Mt. Hood 4:00 p.m.-5:00 p.m.

Introduction and tour of the UCW. Views of recent changes to the layout including new dispatcher and agent office, moving and construction of new active staging area (aka. The Mole) and changes to the layout. How the agent uses Flex-Bill to generate switch lists, wheel reports, and manage customer waybills. Staging trains using barcodes generated in Flex-Bill.

layout-tour,operation,operation-staging,LDSIG,OpSIG

O'Connell, Mike

How to use and decorate the Chooch flexible stone walls and how to make the new Chooch Coal Loads in minutes

Sunday Weidler 2:30 p.m.-3:30 p.m.

Saturday 3-Sisters 4:00 p.m.-5:00 p.m.

Mike O'Connell of Chooch Enterprises will demonstrate, decorate and show all the tricks on how to use Chooch's new flexible stone walls, painting and weathering along the way. He will also show you how to use the new Chooch Coal Textures to make any coal load in any size and in any scale. He will show you how to paint and weather the new Chooch Cribbing Walls using the new Chooch/Americana acrylic paints for washes and overall color textures. Mike will also discuss the

upcoming full line of flexible surface details, such as brick roads, timber and rock wall tunnel liners.

scenery,car-loads,commercial-clinic

Parks, David

The B&O in Cumberland

Friday	Mt. Hood	1:00 p.m.-2:00 p.m.
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A video of the Cumberland West railroad layout. It is structured as a 1953 style railroad promotional using the layout as if it were real.

layout-tour,layout-video,prototype-modeling,OpSIG

Parks, David

Cumberland West layout infrastructure

Friday	Mt. St. Helens	4:00 p.m.-5:00 p.m.
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The materials and methods used to support MRR operations. Topics include Hybrid NCE/Digitrax DCC, multi-line phone system; Color Position Light signals; computer controlled interlocking towers; automated running and integrated operations paperwork.

DCC,signaling,automation,layout-design,LDSIG,OpSIG

Paul, MMR, Kermit

Add perspective to your modeling

Monday	Mt. St. Helens	11:00 a.m.-noon
Tuesday	Sellwood	7:00 p.m.-8:00 p.m.

Perspective is often used to add realism to our two dimensional painted backdrops. Museum diorama builders extend perspective to their three dimensional models as well. Although this technique is rarely used in model railroads, Kermit will show you how it can enhance your railroad's visual appeal.

The clinic will include historical background and principles of both two and three dimensional perspective. True perspective modeling is more than just placing objects of different scales behind each other in a scene. Many computer based drafting programs include a perspective feature making it easier to produce suitable model drawings compared to older manual drafting methods.

Examples will be included to illustrate how three dimensional perspective modeling can make your layout seem much larger than it really is.

modeling-structures,software-cad,LDSIG

Paul, MMR, Kermit

Now it can be told, the "secret" layout in the Land Down Under

Wednesday	Mt. Hood	11:00 a.m.-noon
Friday	Sellwood	4:00 p.m.-5:00 p.m.

This is the story of a secret O scale layout in Australia where I provided a control system to automatically run up to twenty trains at a time for the owner's enjoyment.

The owner was a private individual and all who worked on the layout were sworn to secrecy. Since the layout was built in the late 1970's, perhaps fewer than forty guests have seen it. The late John Armstrong visited once while I was there and he remarked "Even for me, this is a bit over the top".

The owner passed away last year, hence the clinic title. Eight minutes of a recent professional video will be included. The scope of the layout plus a very large 1/32 scale collection was most impressive.

The train collection and parts of the layout were willed to the Workshops Rail Museum in Ipswich, Queensland, Australia for public display.

modeling-3D-printing,software-cad,prototype-modeling

Petrarca, Bruce

Slow orders - Dangerous track ahead

Saturday	Weidler	9:30 a.m.-10:30 a.m.
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See Petrarca, Linda for description.

Petrarca, Bruce

Getting started in DCC

Friday	Mt. Hood	7:00 p.m.-8:00 p.m.
Saturday	Mt. St. Helens	1:00 p.m.-2:00 p.m.

Bruce will discuss the transition from a DC layout to running DCC. Emphasis will be on keeping things simple for the newbie, instead of exploring lots of exotic but rare needs. Discussion will include: system selection, wiring, locomotive selection, etc., with an eye toward the future.

misc,layout-design

Petrarca, Linda; Petrarca, Bruce

Slow orders - Dangerous track ahead

Saturday	Weidler	9:30 a.m.-10:30 a.m.
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Based on our well received article in Model Railroad Hobbyist magazine (December 2012), this clinic will look at preparation for future catastrophes (death, fire, flood, etc.). What you do now may impact you or your family for decades. Don't miss this lively discussion.

misc

Priest, MMR, Stephen

Introducing NMRA LCC - NMRA Layout Command Control

Wednesday	Sellwood	2:30 p.m.-3:30 p.m.
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See Baker, Stuart for description.

Priest, MMR, Stephen

What's happening at the resurrected Railroad Model Craftsman

Tuesday	Mt. St. Helens	7:00 p.m.-8:00 p.m.
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When RMC was forced to close their doors, Stephen Priest took over and brought it back to life. Check out what's happening at this hobby magazine icon.

hobby-media,commercial-clinic

Providenza, Jim

Finer than fine scale - modeling the SR&RL in Proto 20.3n2

Monday	Mt. Hood	10:00 p.m.-11:00 p.m.
Saturday	Mt. Hood	1:00 p.m.-2:00 p.m.

Join Jim as he relates his adventures over the last 9 years working to recreate the 2 foot gauge Sandy River & Rangeley Lakes in his backyard in a combination of scale and gauge that has him scratchbuilding or kitbashing almost everything.

layout-tour,outdoor-modeling,prototype-modeling,LDSIG,OpSIG,RPM

Racz, Balazs

OpenLCB/NMRA LCC - Overview and Current Status

Wednesday	Sellwood	4:00 p.m.-5:00 p.m.
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See Baker, Stuart for description.

Racz, Balazs

OpenLCB User's Group Meeting

Wednesday	Sellwood	7:00 p.m.-8:00 p.m.
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See Baker, Stuart for description.

Racz, Balazs

NMRA LCC (Layout Command Control) from the user's perspective

Wednesday	Sellwood	8:30 p.m.-9:30 p.m.
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See Harris, David for description.

Racz, Balazs

Building an NMRA LCC Node using Commercially Friendly, Free and open Source Software

Thursday	Weidler	8:30 p.m.-11:00 p.m.
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See Baker, Stuart for description.

Robinson, Gary

Truck to rail pulpwood transfer yard

Wednesday	Mt. Bachelor	1:00 p.m.-2:00 p.m.
Friday	Mt. Bachelor	7:00 p.m.-8:00 p.m.

This clinic describes the layout, purpose, and operation of a truck-to-rail pulpwood transfer yard operated by International

Paper during the 1990s in the US Southeast. This yard was one of many such yards in operation. Structures, machinery, trucks, and special-purpose railcars will be examined, and modeling suggestions will be presented.

industry-paper,prototype-industries,prototype-modeling,LDSIG,OpSIG,RPM

Robinson, Gary

Detailing a transition era gas station

Wednesday	Mt. Bachelor	10:00 p.m.-11:00 p.m.
Saturday	Mt. Hood	11:00 a.m.-noon

This clinic gives a brief introduction to the development of service stations, then describes the equipment and details that would be found in such a service station in the 1940-1960 time frame. The difference between 'service stations' and 'filling stations' will be discussed, along with detail changes appropriate to the type modeled.

superdetailing,industry-petroleum

Schutzer, Mark

NCE DCC clinic

Monday	Mt. St. Helens	8:30 p.m.-11:00 p.m.
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See Gurries, Mark for description.

Sedaker, Steve

The SP&S 700 and the Pacific Railroad Preservation Association

Monday	3-Sisters	2:30 p.m.-3:30 p.m.
Wednesday	Mt. Bachelor	8:00 a.m.-9:00 a.m.

An overview of the SP&S 700 history, the role of the PRPA, it's relationship with the city of Portland, the Oregon Rail Heritage Foundation and the local community. The operation and care of the locomotive (including supporting equipment) as well as its operations over the past years since restoration will be covered.

prototype-locomotives,live-steam

Segner, Russ

PNR board of directors meeting

Wednesday	Weidler	4:00 p.m.-5:00 p.m.
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The Pacific Northwest Region annual business meeting. NMRA

Segner, Russ

PNR membership meeting

Wednesday	Weidler	7:00 p.m.-9:30 p.m.
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The Pacific Northwest Region annual membership meeting. Come meet your regional officials.

NMRA

Simmons, Jimmy

Building brick structures with wood

Thursday	3-Sisters	4:00 p.m.-5:00 p.m.
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Learn the basics of the Monster Modelworks brick building system. Helps when building Monster Modelworks kits and scratchbuilding your own structures. Learn basic kit building techniques and brick painting techniques.

modeling-structures,commercial-clinic

Smith, Don

Manufacturing - how, what, when, where, and why

Thursday	Sellwood	9:30 a.m.-10:30 a.m.
Friday	Weidler	7:00 p.m.-8:00 p.m.

See Huberman, Dan for description.

Smith, Lowell

Simple layout operations, TTTO for guests

Wednesday	Mt. Bachelor	2:30 p.m.-3:30 p.m.
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Tips for setting up a successful operating session for guests, using Time Table & Train Orders, that will keep them coming back for more. I have hosted over 200 sessions over the years taking what would be complicated and making it FUN.

operation,TTTO,OpSIG

Spangler, Rob***Scenery, modeling the real West***

Monday 3-Sisters 4:00 p.m.-5:00 p.m.

Friday Weidler 1:00 p.m.-2:00 p.m.

I'll be covering scenery techniques successfully used on my own layout and others I work on. I will address backdrop/3-D scenery integration, fascia, landform design and construction, color, texture and ground cover. I model the interior west, but the information can be useful for any prototype.

scenery,backdrops

Steinmetz, Pete***Battery powered radio control for N to O scale - The Dead Rail Society***

Friday 3-Sisters 1:00 p.m.-2:00 p.m.

Pete Steinmetz and members of the Dead Rail Society will be discussing all aspects of operating trains with battery power and radio control. We are not scale specific, but will concentrate on O Scale down to N Scale. We will discuss locomotive conversions, sound or no sound, choice of equipment and components, companies that supply parts used in Dead Rail, companies that do conversions, batteries, charging, and safety concerns.

This will be an interactive discussion. If we go over the allotted time, we will continue our discussion at the bar.

battery-power,radio-control,OpSIG

Steinmetz, Pete***Freight Car Weathering with Ammo of Mig and Pan Pastels***

Friday 3-Sisters 7:00 p.m.-8:00 p.m.

Many people have heard of Pan Pastels as a painting and weathering medium. Adding products from Ammo of Mig enhances and adds detail to the weathering process. Ammo of Mig is the creation of world famous military modeler Mig Jimenez. I have taken the best of his products and used them in model railroad weathering. With a little practice, the results are very realistic. No airbrush required.

weathering

Stenzel, Norm***TCS WOWSound DCC - Take prototypical sound and operation to a new level***

Wednesday 3-Sisters 11:00 a.m.-noon

Wednesday Weidler 10:00 p.m.-11:00 p.m.

Train Control Systems will explain and demonstrate their revolutionary WOWSound Decoder. The only sound decoder with True CD Quality sound. Both Steam and Diesel versions will be demonstrated. Using features including Auto Adjusting BEMF, Audio Assist™, Keep Alive™ and others TCS will show how to make your locomotive sound and run just like the prototype.

dcc-sound-decoders,commercial-clinic,OpSIG,RPM

Talviste, Mike***Scenery using Geodesic Foam***

Friday Mt. Hood 10:00 p.m.-11:00 p.m.

Geodesic foam scenery.

Scenery

Thomas, Gilbert***Considerations for those interested in modeling the 1980's***

Saturday Weidler 2:30 p.m.-3:30 p.m.

So, you're not a transition era modeler? Well, how about the 1980's? Box cars are at their peak, the Staggers Act has deregulated the railroad rate structures, and say "good bye" to the caboose - railroads are rapidly changing. Come find out what you need to know to model this era!

Thomas, Gilbert***NMRA 2017 Orlando - So much more than Mickey***

Sunday Mt. St. Helens 1:00 p.m.-2:00 p.m.

The 2017 NMRA convention is just two short years away. Although Mickey is in our backyard, our convention promises to bring so much more - more clinics, more layout tours, prototype railroads unique to Florida, non-rail activities galore and a great time to be had by all. Come hear about the exciting activities we have planned for you.

NMRA

Thompson, Mat

Configuring Soundtraxx Tsunami decoders

Wednesday	Mt. St. Helens	8:00 a.m.-9:00 a.m.
Friday	Mt. Hood	2:30 p.m.-3:30 p.m.

Once you have an engine with a Soundtraxx Tsunami decoder, what do you do with it? This clinic will describe the Configuration Variables (CV) that control momentum and braking characteristics of Soundtraxx Tsunami decoders for both diesels and steam engines. Subjects include deciding how much momentum and braking to use, helping engineers to learn momentum and braking and how to choose settings that will work with engines that don't have Tsunami decoders. A complete configuration for movement control and sound will be presented with suggestions for change to meet particular layout situations.

Layout owners will learn how they help operators get used to brakes to include providing an 'Engine Card' so operators know the performance characteristics of the engines they are running. Another subject will be remapping throttle functions so operators do not need to look at their throttles constantly. Different programming actions for Digitrax, NCE and EasyDCC systems are explained as needed.

The clinic will conclude with an explanation of Tsunami consisting settings.

dcc-sound-decoders

Thompson, Mat

Building the Oregon Coast Railroad in Virginia

Tuesday	Mt. Bachelor	9:30 a.m.-10:30 a.m.
Friday	Mt. Hood	4:00 p.m.-5:00 p.m.

The clinic details what I have done to make my HO scale free-lanced Oregon Coast Railroad believable as a prototype railroad. This layout appeared in Great Model Railroads - 2014.

The clinic starts by showing how deciding the place, era and theme early in the building process and using a prototype's history as a reality check can bring to life a railroad that never was. I will explain how I didn't model a prototype but followed the history of a prototype railroad to select appropriate engines and industries.

My goals when building the railroad were to have detailed models and scenery typical of the Pacific Northwest and a track and industry arrangement suitable for realistic operations. Photos will show how water features and layers of textured scenery duplicate Oregon's forest landscape. Operating realism is increased with kit-bashing buildings that create industries large enough to justify rail traffic.

Other topics will include building a region and era appropriate car roster, how using signs and vehicles can make or break a scene and the good and bad of kits.

layout-tour,layout-construction,OpSIG

Thompson, Tony

Pacific Fruit Express operations

Tuesday	Mt. Bachelor	8:00 a.m.-9:00 a.m.
Thursday	Mt. St. Helens	10:00 p.m.-11:00 p.m.

Understanding PFE involves far more than its refrigerator cars. The way the company did business, the ways it managed its many facilities, including shops and ice plants, and the ways refrigerator cars were built, serviced, repaired and operated, all form a complex and interesting story. Both for the historian and for the modeler, this presentation provides a detailed and

inclusive view of these matters, along with some car fleet information.

pacific-fruit-express,reefer-operations,research,prototype-modeling,OpSIG,RPM

Thompson, Tony

Building a realistic bulk oil dealership

Tuesday	Mt. Bachelor	1:00 p.m.-2:00 p.m.
Wednesday	Mt. St. Helens	2:30 p.m.-3:30 p.m.

Bulk oil dealerships in the prototype vary widely, and there may seem to be no two alike, but in fact there are a number of features in common, which may be arranged in various ways. A number of prototype examples are presented in the clinic, along with a detailed look at constructing an HO scale model incorporating the common features of prototype facilities.

industry-petroleum,prototype-industries,prototype-modeling,LDSIG,RPM

Tousley, Donald

Weathering - 101

Wednesday	3-Sisters	10:00 p.m.-11:00 p.m.
Saturday	Weidler	8:00 a.m.-9:00 a.m.

The clinic is designed to teach some fundamental principles and rules of weathering and illustrate by showing various techniques so that a modeler can effectively age rolling stock to 'extreme' conditions

weathering,RPM

Van Arnem, Bob

Scratchbuilding a trestle based on the prototype

Tuesday	Weidler	1:00 p.m.-2:00 p.m.
Wednesday	3-Sisters	8:00 a.m.-9:00 a.m.

Modeling a 207' long, 73' high frame trestle in HO scale. Cutting stock basswood on a table saw and detail photos of bent and stringer construction are included. Slides of the second and fourth subdivisions of the Camas Prairie Railroad, taken on a Hi-Rail trip in August of 1993, will be featured.

prototype-bridges,modeling-bridges,prototype-modeling,RPM

Van Arnem, Bob

Building a Pegram truss bridge

Tuesday	3-Sisters	4:00 p.m.-5:00 p.m.
Wednesday	3-Sisters	9:30 a.m.-10:30 a.m.

Modeling an HO scale 216' railroad bridge with abutments based on a Pegram Truss design using CAD drawings, Central Valley bridge parts, and scratchbuilt styrene and brass components. In progress photos will be presented as the construction steps are discussed.

prototype-bridges,modeling-bridges,prototype-modeling,RPM

Van Gilder, Chip

My experience with 3D printing - not for the faint of heart!

Tuesday	3-Sisters	8:30 p.m.-9:30 p.m.
Wednesday	Mt. Hood	4:00 p.m.-5:00 p.m.

Over the last two years, I have been exploring the world of 3D printing, how it works, what it can possibly do for me in my modeling experience, some of the complications, some of the short comings, and how I can exploit this technology.

modeling-3D-printing,RPM

Walker, MMR, Roger

Painting and installing rock castings for prototypical realism

Wednesday	3-Sisters	4:00 p.m.-5:00 p.m.
Saturday	3-Sisters	2:30 p.m.-3:30 p.m.

In this clinic I will show how to use acrylic paints to realistically color Plaster of Paris rock castings. I will then show how to blend various castings together to make geologically realistic scenery. Finally I will show how to blend the rocks with vegetation and talus to complete the scenery

scenery

Waterstreet, David L.***Signaling your layout with DCC for control/operations***

Wednesday	Sellwood	1:00 p.m.-2:00 p.m.
Saturday	Mt. Bachelor	11:00 a.m.-noon

Presentation will include the methods and hardware variations (options) needed to install and operate various prototype signaling systems. Included will be our experience and lessons learned having done/assisted/advised on several layouts in the Pacific Northwest and west coast. Time will be allotted for questions and answers during and following the presentation.

signaling,DCC,electronics,LDSIG,OpSIG,RPM

Weinheimer, MMR, Bob***Getting Started in Operations***

Friday	Mt. Bachelor	8:30 p.m.-9:30 p.m.
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This clinic looks at issues a modeler might wish to consider when designing a layout for operations. Topics include setting an era and location, designing a car fleet, developing a train schedule, and dispatching systems.

operation,OpSIG

Weinheimer, MMR, Bob***Operations on the Pennsylvania Southern***

Friday	Mt. Bachelor	10:00 p.m.-11:00 p.m.
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The Pennsylvania Southern is a freelance layout set in 1980 in western Pennsylvania. Topics for discussion include layout philosophy, train scheduling, train operation, dispatching, and supporting paperwork.

operation,layout-tour,OpSIG

Williams, MMR, Mark***Silver Thread to the West - The history of the California Zephyr***

Tuesday	Mt. St. Helens	1:00 p.m.-2:00 p.m.
Friday	Mt. St. Helens	2:30 p.m.-3:30 p.m.

The history of the CB&Q's California Zephyr, one of the last great named passenger trains. Learn how three great railroads cooperated to provide fast, comfortable, family-friendly service from Chicago to Oakland and San Francisco in some of the most stylish passenger cars Budd ever manufactured. We'll begin with the early planning in the 1940's and conclude with the last scheduled trip prior to Amtrak taking over the route in 1971.

trains-passenger,research

Williams, MMR, Mark***CB&Q's Pioneering Zephyr - The history of the first of the Silver Trains***

Tuesday	Mt. St. Helens	2:30 p.m.-3:30 p.m.
Friday	Mt. St. Helens	1:00 p.m.-2:00 p.m.

The history of the CB&Q's Pioneer Zephyr, one of the first diesel streamliners. Learn how Ralph Budd conceived of an all-stainless steel, diesel-powered, streamlined passenger train, designed from the start to be the 'last word' in rail passenger travel.... the Zephyr. We'll begin with the early planning in the 1930's, follow the train through it's long history on various routes, and conclude with the train's permanent home in the refurbished Museum of Science and Industry in Chicago.

trains-passenger,research

Wright, MMR, Greg***Big railroads in small spaces***

Tuesday	Mt. St. Helens	10:00 p.m.-11:00 p.m.
Wednesday	Sellwood	11:00 a.m.-noon

Join Greg Wright as he describes how to fit a model railroad into any space and make it look and feel bigger. Greg will share his ideas, his favorite reference material, and use his Consolidate Republic Mining Railroad to illustrate his points.

layout-design,LDSIG

Wright, MMR, Greg***How loud is a locomotive? Is your sound in scale?***

Monday	Weidler	8:30 p.m.-9:30 p.m.
Wednesday	Weidler	1:00 p.m.-2:00 p.m.

Join Greg Wright for a group discussion on how loud your locomotives should be as they travel around your railroad. We are very careful to make sure we build our models to the scale inch, but have you ever considered the scale of sound on your layout? What about forced perspective with sound? You can do it with a scale rule and a little math. Join in for an interesting discussion, you may find that you have your locomotives set too quiet.

sound

Zeek, MMR, Jim***Box Factories***

Saturday	Mt. Hood	2:30 p.m.-3:30 p.m.
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Wooden boxes were the only and preferred package for shipping produce from fields and most orchards to retail outlets from the 19th century until the 1960's. Nearly a third of all pine timber cut in our nation, excluding that for paper, was used in this manner. This clinic uses photographs from the presenter's collection and experience as a machine operator in a California box factory for illustration.

forest-products, industries, RPM

Zeek, MMR, Jim***Placerville, CA: A complete district, to scale, as one layout***

Friday	Mt. St. Helens	7:00 p.m.-8:00 p.m.
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The earliest attempted crossing of the Sierras by rail terminated in this town in late 1887. By 1900 two large saw mills - one of which later built a connecting branchline - along with a box factory, fruit packing sheds, a foundry, and farms were all shipping products, while mines, businesses and farms were importing machinery, fuel, and supplies. From 1915-1953 traffic expanded up to two trains daily of 20-30 cars each in late summer and during WW II. Presenter illustrates with photos and maps.

layout-design, prototype-railroads, research, forest-products, LDSIG, RPM

Zeek, MMR, Jim***Sawmills***

Wednesday	Mt. Hood	10:00 p.m.-11:00 p.m.
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An in depth look at their physical plants, machinery and how logs become lumber, illustrated by photographs from the clinician's collection. Your presenter has studied Forestry at Oregon State, grew up in the industry and has worked as a machine operator for Michigan-California Lumber Co. and Sierra Pacific Lumber Co.

forest-products, logging, prototype-modeling



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Self-Guided Layout Tours

Self-guided tours booklets will be available at the registration office. The booklets are for Monday, Tuesday, Wednesday, and Thursday.

Each booklet is for one day and has maps and driving information to home layouts.

The cost will be \$15.00 each.

The tours are set up so that layouts are open:

8:00 a.m. to Noon and

1:00 p.m. to 5:00 p.m. and are opposite the bus tours.

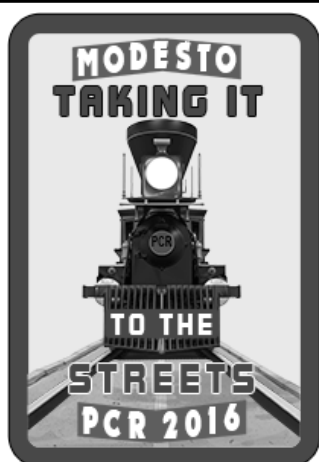
So, if the bus tour is scheduled in the AM, the self-guided tour will be in the PM.

Not all layout owners have agreed to self-guided tours.

There are also a couple of layouts included that are not on any bus tour.

Please be sure to respect the time frame, and enjoy yourselves.

Note Pad



The Pacific Coast Region cordially invites you to attend

Taking It To The Streets 2016 PCR Convention

in Modesto, California, at the DoubleTree by Hilton Hotel, 1150 9th St. Modesto, CA 95354.)

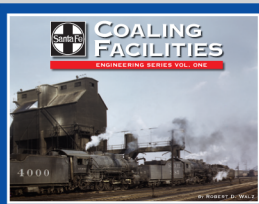
Taking It To The Streets 2016

runs from
Wednesday, April 20
through
Sunday, April 24, 2016,

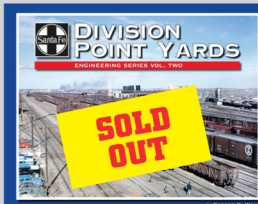
starting at **12:00 Noon** for registration check-in and ending with the Sunday morning PCR Annual Business Meeting.

Sandwiched between the two will be a veritable smorgasbord of model railroading activities you've come to expect at PCR conventions, including clinics, contests, prototype tours, layout tours, operating sessions, breakfasts, banquet, and more!

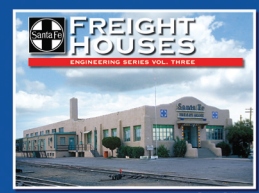
SANTA FE ENGINEERING SERIES
BY ROBERT D. WALZ



Coaling Facilities

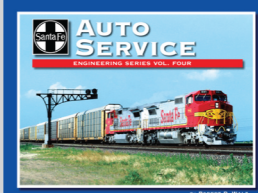


Division Point Yards
80-page b/w - soft cover

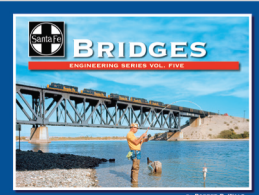


Freight Houses

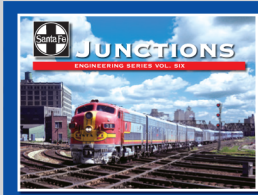
80-page b/w - soft cover



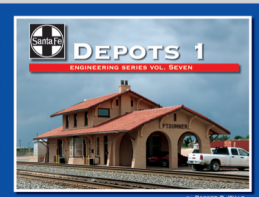
Auto Service
64-page b/w - soft cover



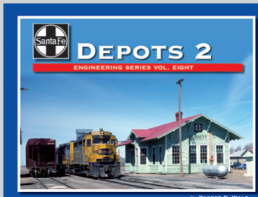
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Clinician Clinic Title (title sort)

Barney, Bruce	3D printing - designing and creating them
Dance, Mark	8 bridges for the Columbia & Western
Feeney, Kevin	A Look at the Southern Pacific thru its annual reports: 1944 - 1969
Mindheim, Lance	Achievable Realism
Paul, Kermit	Add perspective to your modeling
McRee, Duncan	Adventures in Dead Railing the HO/HOn3 Donner Summit
Bisgeier, Craig	An update on my 1892 Housatonic Railroad layout
Getz, Charlie	Annual NMRA business meeting
Jameson, William	Basic electronics for model railroads
Bronson, Dick	Basics of signaling and automating your layout
Steinmetz, Pete	Battery powered radio control for N to O scale - The Dead Rail Society
Houzvicka, Frank	Behind the scene at Miniatur Wunderland
Bisgeier, Craig	Beyond Pratt: Designing and building better bridges for your layout
Wright, Greg	Big railroads in small spaces
Chubb, Bruce	Both Sides of the Sunset Valley Story
Chubb, Janet	Both Sides of the Sunset Valley Story
Zeek, Jim	Box Factories
Ireland, Jarrette	Braking, Switching, Running: Railroading with Tsunami Decoders
Hanley, Don	Building a layout in a hostile environment
Van Arnem, Bob	Building a Pegram truss bridge
Thompson, Tony	Building a realistic bulk oil dealership
Simmons, Jimmy	Building brick structures with wood
Baker, Stuart	Building an NMRA LCC Node using Commercially Friendly, Free, and Open Source Software
Racz, Balazs	Building an NMRA LCC Node using Commercially Friendly, Free, and Open Source Software
Thompson, Mat	Building the Oregon Coast Railroad in Virginia
Barney, Bruce	Buildings on the Southern Pacific Cascade line, Eugene to Crescent Lake"
Black, Rodney	CATS: A CTC panel that grows
Williams, Mark	CB&Q's Pioneering Zephyr - The history of the first of the Silver Trains
Hamilton, Jack	Clinics that work at public events
Chubb, Bruce	C/MRI 30th birthday celebration
Neumann, Seth	C/MRI 30th birthday celebration
Thompson, Mat	Configuring Soundtraxx Tsunami decoders
Thomas, Gilbert	Considerations for those interested in modeling the 1980's
Judge, Robert	Controlling 280 Turnout Servos using fascia mounted panels
Koester, Tony	Creative structure kitbashing
Parks, David	Cumberland West layout infrastructure
Robinson, Gary	Detailing a transition era gas station
Gurries, Mark	DCC basics
Gurries, Mark	DCC decoder install
Gurries, Mark	DCC decoder programming
Gurries, Mark	DCC wiring
Catania, Chuck	Designing a signaling system with cpNode (CMRI on Arduino)
Neumann, Seth	Designing a signaling system with cpNode (CMRI on Arduino)
Bisgeier, Craig	Designing and building laser-cut freight cars
Johnson, Greg	Designing and building the T&NO in East Texas
Robinson, Gary	Detailing a transition era gas station

Clinician	Clinic Title (title sort)
Ireland, AJ	Digitrax User Forum
Johnston, Jeff	Enjoy more modeling fun with silicone molds and urethane casting
Hopkins, Ron	Fabricating structure details with styrene
Providenza, Jim	Finer than fine scale - modeling the SR&RL in Proto 20.3n2
Lewis, Dan	Finishing and detailing structures
Steinmetz, Pete	Freight Car Weathering with Ammo of Mig and Pan Pastels
Petrarca, Bruce	Getting started in DCC
Weinheimer, Bob	Getting Started in Operations
Moignard, Mick	Getting the best from the Soundtraxx Tsunami
Murphy, Dennis	Getting Published - A guide to getting your photos and ideas out in our hobby
Deis, Paul	Hazardous material markings on rail cars
Wright, Greg	How loud is a locomotive? Is your sound in scale?
Hamm, Bob	How to judge the NMRA contest
O'Connell, Mike	How to use and decorate the Chooch flexible stone walls and how to make the new Chooch Coal Loads in minutes
Draper, Barry	Installing and Working with Surface Mount LEDs
Chubb, Bruce	Interfacing a computer to your model railroad
Baker, Stuart	Introducing NMRA LCC - NMRA Layout Command Control
Priest, Stephen	Introducing NMRA LCC - NMRA Layout Command Control
Freeman, Henry	Introduction to prototype research
Geiger, Doug	Iron and Steel: the industry
Grossman, Tom	Iwata airbrush 101
Houtz, Alan	Iwata airbrush 101
Grossman, Tom	Iwata hands-on weathering workshop
Houtz, Alan	Iwata hands-on weathering workshop
Madsen, Greg	JMRI DecoderPro: A conceptual overview
Cameron, Ken	JMRI overview and current status
Cameron, Ken	JMRI user group meeting
Black, Rodney	Layout design for signaling
Clark, Robert A.	Layout design with a passenger train emphasis
Henderson, Byron	LDSIG Bootcamp
Neumann, Seth	LDSIG Bootcamp
Neumann, Seth	LDSIG panel: What would you do differently?
Cameron, Ken	Learn about building LCC bus interfaced hardware - hands on!
Muff, Nicholas	Lighting HO scale vehicles
Hauff, Steve	Loggers and logging railroads
Huberman, Dan	Manufacturing - how, what, when, where, and why"
Smith, Don	Manufacturing - how, what, when, where, and why"
Frey, Robert	Measure your diesel horn
Getz, Charlie	Meet the Leaders
Getz, Charlie	Meet the Prez - the president of the NMRA that is...
Fugate, Joe	Meet the TrainMasters TV crew
Murphy, Dennis	Micro color cameras for your trains
Ingraham, Paul	Micro Macro Modularity: using the modular concept in layout design
Fugate, Joe	Model Railroad Hobbyist: Fun with trains
Grivno, Cody	Model Railroader's Wisconsin & Southern project layout: From concept to finished model railroad

<u>Clinician</u>	<u>Clinic Title (title sort)</u>
Kempinski, Bernard	Model Railroads go to war
Ferenc, Jim	Modeling & Operating with Track Scales
Ingraham, Paul	Modeling Asian Railways in N Scale
Moignard, Mick	Modeling Blast
Forsyth, Stuart	Modeling from Train Sheets
McGuirk, Martin	Modeling the October season
Kaufman, Bill	Modeling the State Belt
Bunza, Geoff	Modeling with light: Scale model animation for model railroading
Bunza, Geoff	Modeling with movement: Scale model animation for model railroading
Bunza, Geoff	Modeling with sound: Scale model animation for model railroading
Van Gilder, Chip	My experience with 3D printing - not for the faint of heart!
Gurries, Mark	NCE DCC clinic
Schutzer, Mark	NCE DCC clinic
Thomas, Gilbert	NMRA 2017 Orlando - so much more than Mickey
Kooning, Clark	NMRA Canada Membership Meeting
Harris, David	NMRA LCC (Layout Command Control) From the user's perspective
Racz, Balazs	NMRA LCC (Layout Command Control) From the user's perspective
Fowler, Don	N-ovations in N scale
Paul, Kermit	Now it can be told, the "secret" layout in the Land Down Under"
Baker, Stuart	Open LCB/NMRA LCC Overview and Current Status
Harris, David	Open LCB/NMRA LCC Overview and Current Status
Racz, Balazs	Open LCB/NMRA LCC Overview and Current Status
Baker, Stuart	OpenLCB User's Group Meeting
Harris, David	OpenLCB User's Group Meeting
Racz, Balazs	OpenLCB User's Group Meeting
Lewis, Dan	Operations 101 - becoming an operator
Lewis, Dan	Operations 201 - Preparing to host operations
Weinheimer, Bob	Operations on the Pennsylvania Southern
Blake, Rich	Operations with Virtual railroading
Lovely, John	Outdoor Railroading - Taking the hobby to new dimensions
Thompson, Tony	Pacific Fruit Express operations
Johnston, Jeff	Pains and pleasures: Prototype modeling the Sugar Pine Lumber Company
Hall, Edwin	Painting a brass Southern Pacific cab-forward steam engine
Walker, Roger	Painting and installing rock castings for prototypical realism
Clark, Robert A.	Passenger terminals and servicing facilities: Prototype examples
Neumann, Seth	Phones for Ops - updated!
Burgess, Jack	Photoshop Elements as a modeling tool
Comstock, Charlie	Photography - Beyond Snapshots
Zeek, Jim	Placerville, CA: A complete district, to scale, as one layout
Segner, Russ	PNR board of directors meeting
Segner, Russ	PNR membership meeting
Lovely, John	Populate your passenger trains
Hauff, Steve	Portland's Steel Bridge
Bunza, Geoff	Prototype maintenance of way cranes and derricks
Chubb, Bruce	Prototype modeling the Pacific Northwest

Clinician	Clinic Title (title sort)
Lovely, John	Railroad Flagging - Visual communication on real railroads.
Butts, Gary	Resistance soldering: The basics
Chandler, Mike	Reviving Strathmore as a modeling material
Lewis, Dan	Running cattle and other beasts
Zeek, Jim	Sawmills
Spangler, Rob	Scenery, modeling the real West
Bragdon, Joel	Scenery using geodesic foam
Talviste, Mike	Scenery using geodesic foam
Comstock, Charlie	Scenery - Making it real
Van Arnem, Bob	Scratchbuilding a trestle based on the prototype
Ferenc, Jim	Scratchbuilding an animated coal mine
Chubb, Bruce	Signaling your railroad - Parts 1, 2, & 3
Waterstreet, David L.	Signaling your layout with DCC for control/operations
Williams, Mark	Silver Thread to the West - The history of the California Zephyr
Smith, Lowell	Simple layout operations, TTTO for guests
Petrarca, Bruce	Slow orders - Dangerous track ahead
Petrarca, Linda	Slow orders - Dangerous track ahead
Henderson, Byron	Small Layout Design - Beyond the Timesaver
Decker, Bill	SP's Cascade crossing in HO scale: Design, construction, and initial operation of a dream"
Chubb, Bruce	Sunset Valley Oregon System updates and operation
Stenzel, Norm	TCS WOWSound DCC - Take prototypical sound and operation to a new level
Parks, David	The B&O in Cumberland
Dance, Mark	The Columbia & Western: Designed for Operation or "2500 vertical feet into a two car garage!"
Houzvicka, Frank	The European N scale convention
Merrin, Ed	The Northwestern Pacific - Challenges and rewards of modeling a prototype railroad
Sedaker, Steve	The SP&S 700 and the Pacific Railroad Preservation Association
Hauff, Steve	The Spruce Production Division
Kaufman, Bill	The State Belt railroad
Kempinski, Bernard	The USMRR Aquia Line: Modeling a Civil War Railroad
Hauff, Steve	The Willamette locomotive
Freeman, Henry	Thinking outside the box: Designing the B&O Chicago Terminal RR
Hamilton, Jack	This is your first NMRA national convention
Klettke, Kevin	Time saving fleet weathering
Gust, Steve	Train Dispatching Elements
Kang, Rick	Train Dispatching Elements
Robinson, Gary	Truck to rail pulpwood transfer yard
Hobbs, Paul	TTX - An unnoticed giant
Koester, Tony	Update on the Nickel Plate
Morden, Bruce	Using Sanborn maps and aerial photos for layout design
Burgess, Jack	Using SketchUp and rapid prototyping-
Brown, Bill	Using your digital camera to enhance your Modelling (Parts 1 and 2)
Nicholas, Lee	Utah Colorado Western update
Tousley, Donald	Weathering - 101

<u>Clinician</u>	<u>Clinic Title (title sort)</u>
Keena, James	Weathering freight cars
Muff, Nicholas	Westside Lumber Company adventures - 1960-1963
Priest, Stephen	What's happening at the resurrected Railroad Model Craftsman
Hamilton, Jack	What's in my toolbox
Besougloff, Neil	What's new at Model Railroader magazine?
Hobbs, Paul	You thought prototype research might be fun
Auburg, Doug	Your host club: The Columbia Gorge

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SAT 10-5pm
SUN noon-4pm

**1809 NE CESAR CHAVEZ BLVD (39TH AVE)
PORTLAND, OR 97212 • 503-284-1912**

www.hobbysmith.com



25th National Train Show®

The 2015 National Train Show®, with 180,000 sq. ft. of display space, and one of the largest train shows in the world, is located at the Portland Metropolitan Exposition Center, 2060 N Marine Dr, Portland, OR 97217.

The National Train Show® features Model Railroad manufacturers, publishers and service providers, dealers and numerous layout displays.

Admission for all days is included in your full convention registration package. Wear your badge. **It is your ticket.** Day-Pass registrants are admitted on the day printed on the badge.

National Train Show® Hours:

Convention Registrants and Trade only:

Friday, August 28 9:00 a.m. - Noon

Public Show:

Friday, August 28 Noon - 6:00 p.m.

Saturday, August 29 10:00 a.m. - 6:00 p.m.

Sunday, August 30 10:00 a.m. - 5:00 p.m.

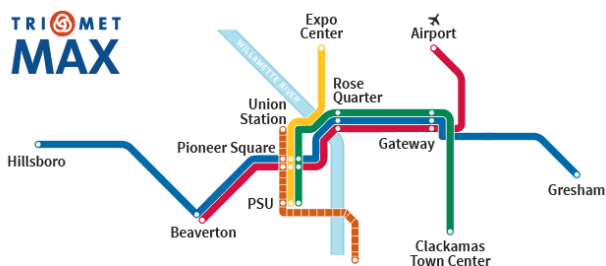
The National Train Show® offers the opportunity to meet vendors, suppliers and manufacturers of the hobby industry. Many manufacturers unveil new products at the National Train Show®.

Getting to the National Train Show®:

Many registrants will already have Weekly passes on Tri-Met. We are selling DAY passes, at our cost, so you can ride MAX's Yellow Line, which terminates at the Expo Center.

From the Convention hotel, ride MAX (Red, Blue or Green Line trains) West to Rose Quarter Transit Center, then a short walk (785 feet) to the Yellow Line. (If you don't want to walk, stay on any **Green** Line train and continue across the river. Get off at the first stop west of the river. Walk around the Greyhound terminal to its main entrance, board a Yellow Line train heading back the way you came.) MAX operates at 15-minute or better frequencies during the day. The trip averages 40-minutes.

The convention is providing shuttles on Friday morning to/from the Yellow Line for registrants with disabilities. A golf cart shuttle can be arranged if you find the walk from the Expo MAX stop to the Train Show hall is too far.



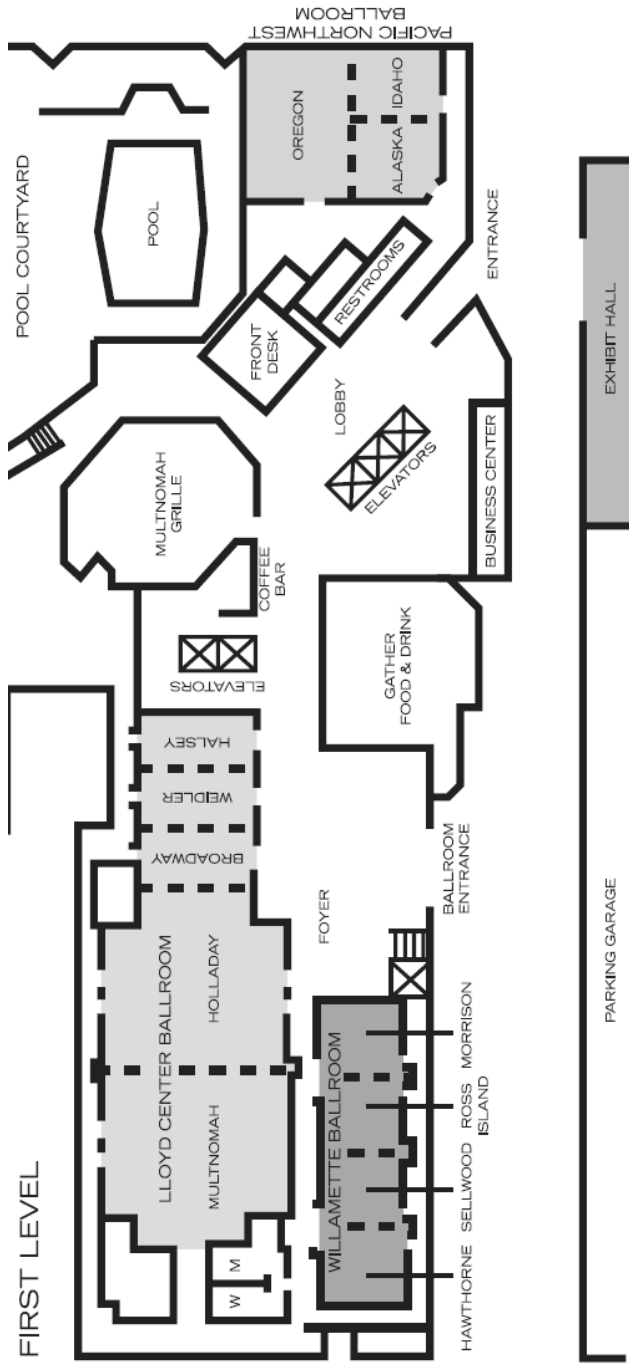
FLOORPLANS AND ROOM

UTILIZATION FOR

PORTLAND DAYLIGHT EXPRESS 2015

First Floor

Multnomah	Contests
Holladay	Special Interest Groups
Broadway	Railroad Prototype Modelers
Weidler	Clinic
Halsey	Registration/NMRA Office
Hawthorne	Company Store
Sellwood	Clinic
Ross Island	Clinic Office
Morrison	Convention Office
Washington	Modeling with the Masters
Washington is beyond Multnomah Grille to left.	
Alaska	Non-Rail R&R
Oregon	Non-Rail Clinic



FLOORPLANS AND ROOM

UTILIZATION FOR

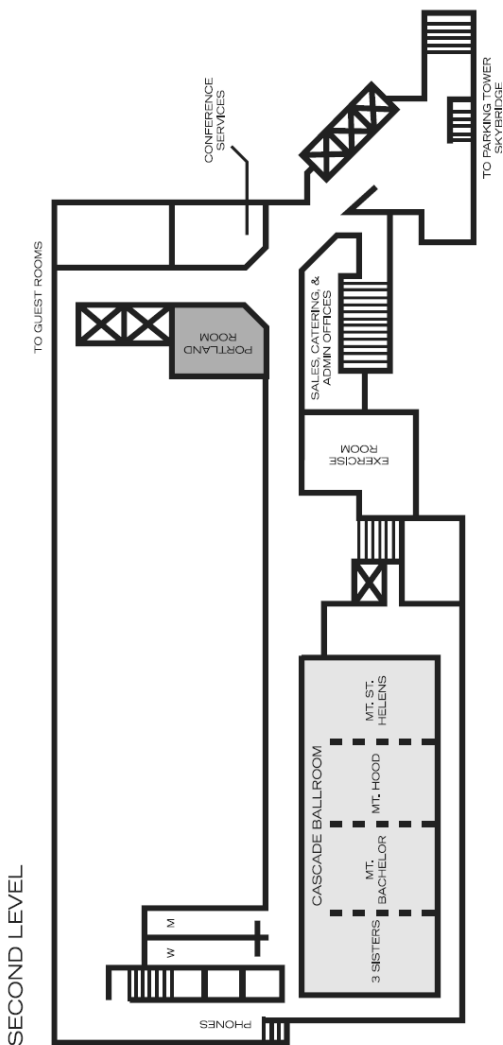
PORTLAND DAYLIGHT EXPRESS 2015

Second Floor

3 Sisters	Clinic
Mt. Bachelor	Clinic
Mt. Hood	Clinic
Mt. St. Helens	Clinic
Portland	Meetings

Exhibit Hall - across from Ballroom Entrance

Silent Auction
Tour Desk
Tour Dispatch
Display Layouts





July 3 - 10, 2016, Indianapolis, Indiana
www.nmra2016.org

Welcome to Indianapolis

In just 44 weeks, members of the Central Indiana Division of the Midwest Region will be welcoming you to Indianapolis, Indiana for next year's NMRA National Convention and National Train Show, *Highball to Indy, 2016*.

The date will be Sunday, July 3, the opening day of the 2016 convention. Prior to that day, the layouts scheduled for tours and operating sessions will have been checked out yet another time for proper operation and clinicians will have gone through their presentations enough times to be able to recite them in their sleep. Lists will be checked to ensure all the prototype, general interest, and non-rail tours are ready to go.

July 3rd is just the first day of a week-long convention where model railroaders will be able to gather and share their interest in, and, love of this hobby. Our plan is to provide a week's worth of enjoyable, educational opportunities for both Rail and Non-Rail attendees. There should be plenty to do for everyone. This is your chance to revisit friends (or make new ones), and enhance your knowledge of model railroading. You'll be able to learn new tips and techniques from other modelers while attending clinics or visiting area layouts. Participating in prototype tours will provide insight into how real railroads and industries fit into the international transportation system. You can also learn about new products and enjoy viewing portable layouts at the Train Show, July 8-10.

The convention will be held in downtown Indianapolis at The Westin Indianapolis Hotel. The National Train Show will be held in the Indianapolis Convention Center, located immediately across the street from the convention hotel. There is a covered, elevated walkway connecting the hotel to the Convention Center. Indianapolis is well-known as a first-class sports city with major, world-class sports arenas within walking distance of the hotel. The Arts are also represented by several interesting museums within that same downtown area. Moving a few miles outside the comfortable walking distance will allow you to visit the Indianapolis Motor Speedway Museum, The Children's Museum of Indianapolis, the Indianapolis Museum of Art, and Conner Prairie Interactive History Park. These are all great places to visit. Bring your family!

**2016 marks 81 years of NMRA Conventions, the
 100th running of the Indianapolis 500, and the
 200th anniversary of Indiana Statehood.
 Come join the celebration!**

Plan to attend future
NMRA National Conventions



July 30 - August 6, 2017, Orlando, Florida
www.nmra2017orlando.org



August 5 - 12, 2018, Kansas City, Missouri
www.kc2018.org



July 7 - 13, 2019, Salt Lake City, Utah
www.nmra2019slc.org

Sun. 23	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Sun. 23	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30				
3 Sisters													Silicone molds, Jeff Johnston			280 Turnout Servos, Robert Judge			Surface Mtd LEDs, Barry Draper																	
Mt. Bachelor													Digital camera modeling 1, Brown			Digital camera modeling 2, Brown			SP Cascade Crossing, Bill Decker																	
Mt. Hood													Micro Macro Modularity, Ingraham			Meet the leaders, Charlie Getz			Sugar Pine Lumber, Jeff Johnston																	
Mt. St. Helens													NMRA 2017 - Orlando, Thomas			SP Annual Reports, Kevin Feeney			First NMRA National, Jack Hamilton																	
Layout Tour													L131 Canby / Brooks, Oregon																							

Time blocks are in 1/2 hour intervals. Actual tour departure or arrival time will be within that block - not necessarily on the edge (lead or trail) of the block.
 Actual scheduled departure/arrival times are shown in the detailed tour listings.

Clinics listed attempt to show essence of title, plus name of presenter. Full details are in the clinic listing, alphabetically by presenter surname.

Mon. 24	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Mon. 24	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30											
3 Sisters			Resistance Soldering, Gary Butts		Clinics that work, Jack Hamilton		Laser-cut Freight Cars, Craig Bisgeier						Finishing/ detailing structures, Dan Lewis			SP&S 700 and PRPA, Steve Sedaker			Scenery real West, Rob Spangler						Utah Colorado Western, Lee Nicholas																		
Mt. Bachelor			LDSIG bootcamp, Byron Henderson, Seth Neumann										Sunset Valley OS updates, Bruce Chubb			Modeling Pacific NW, Bruce Chubb			Sanborn maps layout design, Bruce Morden						Psgr Term, Robert A. Clark			Layout design Psgr, Robert A. Clark			Modeling the State Belt, Bill Kaufman												
Mt. Hood			Dead Railing Donner, McRee		Both Sides of Sunset Valley, Janet Chubb		Loggers & logging RR, Steve Hauff						Westside Lumber, Nicholas Muff			Painting SP cab-forward, Edwin Hall			Housatonic RR Layout, Craig Bisgeier						Lighting HO vehicles, Nicholas Muff			8 Bridges, Mark Dance			SR&RL in Proto 20.3n2, Providenza												
Mt. St. Helens			Your Host Club, Doug Auburg		Achievable Realism, Mindheim		Add perspective, Kermit Paul						Prototype Research Fun, Paul Hobbs			TTX - A Giant, Paul Hobbs			The State Belt Railroad, Bill Kaufman						3D printing, Bruce Barney			NCE DCC Clinic. Mark Gurries, Mark Schutzer															
Layout Tour			L256 Vancouver, Washington										L235 Washougal / Camas, Washington																														
Layout Tour			L234 Central Portland Metro												L236 Tualatin / Tigard, Oregon																												
General Tour						G261 Bob's Red Mill & Aurora Antiques																																					
General Tour													G262 Oregon Wine Tour & Tasting																														
Prototype Tour			P201 Guided Railfan Tour of Columbia Gorge #1																																								
Prototype Tour			P202 Port of Vancouver Tour												P203 UP Albina Yard & Engine Facility Tour																												
Prototype Tour			P216 Chelatchie Prairie Railroad Excursion #1																																								

Tue, 25	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Wed. 26	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Wednesday continues next page

Wed. 26	7:00	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
Sellwood			Willamette locomotive, Steve Hauff		Hazardous markings, Paul Deis			Big RR small spaces, Greg Wright				Signaling Layout, Waterstreet			Introducing NMRA LCC, Baker			Open LCB/ NMRA LCC, Baker						Open LCB user group meeting, Baker			NMRA LCC perspective, David Harris / Balazs Racz				
Weidler			EduTRAIN update, Bob Blake		Finishing structures, Dan Lewis			N-ovations in N Scale, Don Fowler				Is your sound in scale, Greg Wright			Portland's Steel Bridge, Steve Hauff			PNR BOD mtg, Russ Segner						PNR membership meeting, Russ Segner						TCS WOW Sound DCC, Stenzel	
3 Sisters			Build a trestle, Bob Van Armem		Pegram truss bridge, Bob Van Armem			TCS WOW-Sound DCC, Stenzel				Running cattle, Dan Lewis			Outdoor Railroad, John Lovely			Rock Castings, Walker						Soundtraxx Tsunami, Mick Moignard			Measure diesel horn, Robert Frey			Weathering 101, Donald Tousley	
Mt. Bachelor			SP&S 700 and PRPA, Steve Sedaker		Painting SP cab-forward, Edwin Hall			Populate psgr trains, John Lovely				Truck to rail pulp transfer, Robinson			TTTO for guests, Lowell Smith			Spruce Product Div., Steve Hauff						Basic electronics, Jameson			Document layout, William Jameson			Detailing gas station, Gary Robinson	
Mt. Hood			Interfacing Computer, Bruce Chubb		Structure details styrene, Ron Hopkins			Layout Land Down Under, Kermit Paul				Animated coal mine, Jim Ferenc			Modeling Track Scales, Jim Ferenc			3D printing experience, Van Gilder						Model RR go to war, Kempinski			USMRR Aquia Line, Kempinski			Sawmills, Zeek	
Mt. St. Helens			Tsunami decoders, Mat Thompson		Photoshop Elements tool, Jack Burgess			Using SketchUp, Jack Burgess				Reviving Strathmore, Mike Chandler			Bulk Oil Dealer, Tony Thompson			Northwestern Pacific, Ed Merrin						Westside Lumber, Nicholas Muff			Lighting HO vehicles, Nicholas Muff			Dead Railing Donner, McRee	

Wed. 26	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Doodle Pad

Thu. 27	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Mt. Bachelor			Modeling from Train Sheets, Forsyth		B&OCT RR, Henry Freeman			T&NO in East Texas, Greg Johnson					Prototype Research, Freeman				Signaling your Railroad, parts 1, 2, & 3, Bruce Chubb											C/MRI 30th birthday celebration, Bruce Chubb, Seth Neumann						LDSIG Panel, Seth Neumann																						
Mt. Hood			Modeling the State Belt, Bill Kaufman		Sunset Valley OS updates, Bruce Chubb			Modeling Pacific NW, Bruce Chubb					What's new at MR, Neil Besongloff				MR's Wisconsin & S, Cody Grivno		Utah Colorado Western, Lee Nicholas								Digitrax User Forum, AJ Ireland, Zana Ireland						Modeling October, McGuirk																							
Mt. St. Helens			Photoshop Elements tool, Jack Burgess		Using SketchUp, Jack Burgess			DCC basics, Mark Gurries					DCC wiring, Mark Gurries				DCC decoder install, Mark Gurries		DCC decoder programming, Mark Gurries							Update Nickel Plate, Tony Koester			Structure kitbashing, Tony Koester			PFE Ops, Tony Thompson																								
Layout Tour			L547 Woodburn / Keizer, Oregon																																																					
Layout Tour			L548 Hillsboro / Cornelius, Oregon																																																					
General Tour					G566 Sternwheeler Columbia Gorge Cruise																	G568 Portland Bridge & Union Station Tour #2													G570 Last Thursday Street Fair																					
General Tour													G567 Pittock Mansion, Rose Test Garden, Japanese Garden																																											
Prototype Tour					P511 Mt. Rainier Scenic RR & Tacoma Rail Tour																																																			
Prototype Tour					P512 Northwest Rail Institute Tour																																																			
Prototype Tour				P515A Oregon Rail Heritage Center #1																																																				
Prototype Tour							P515B Oregon Rail Heritage Center#1																																																	

Fri. 28	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
Expo Center					National Train Show/NMRA				National Train Show/NMRA and Public												Clinic Office (closed at posted meal times)											
Morrison									Convention Office / Volunteer Desk (closed at posted meal times)												Clinic Office (closed at posted meal times)											
Ross Island									Company Store																							
Hawthorne									Registration Open																							
Halsey																																
Multnomah					Contest Entry Pickup																											
Holladay									SIG Room												LDSIG/OPSIG Dinner (off site)											
Exhibit Hall									Auction Settlement Sellers																							
Exhibit Hall									Tour Desk (manned 45-minutes before each departure)																							
Oregon					Quilt Binding, Crawford				Mod-Podge Ornaments, Forbes				No-Sew Gift Bags, Madsen				Olde Time Sing-a-long, Mary Moore-Campagna															
Alaska									Non-Rail R&R / Project Linus																							
Sellwood									Animated Coal Mine, Jim Ferenc				Northwestern Pacific, Ed Merrin				Layout Land Down Under, Kermit Paul				Basic electronics, Jameson				Design for signaling, Rodney Black				Virtual Railroad, Rich Blake			
Weidler									Scenery real West, Rob Spangler				Model RR go to war, Kempinski				USMRR Aquia Line, Kempinski				Manufacturing, Huberman/ Smith				Modeling Blast, Mick Moignard				280 Turnout Servos, Robert Judge			

Fri. 28	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
3 Sisters								Resistance Soldering, Gary Butts
Mt. Bachelor								Operations Penn. Stn, Weinheimer
Mt. Hood								Geodesic Foam, Bragdon/Talviste
Mt. St. Helens								Digital camera modeling 2, Brown
Layout Tour								
General Tour								
General Tour								

Sat. 29	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30
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Mt. Bachelor				Columbia & Western, Mark Dance			Layout hostile environment, Don Hanley		Signaling Layout, Waterstreet				Design for signaling, Rodney Black																												
				Structure details styrene, Ron Hopkins			Beyond Snapshots, Comstock		Detailing gas station, Gary Robinson				SR&RL in Proto 20.3n2, Providenza				Box Factories, Zeek			RR Tsunami Decoders, Ireland																					
Mt. St. Helens				N-ovations in N Scale, Don Fowler			Modeling Blast, Mick Moignard		Scenery - making it real, Comstock				Getting started in DCC, Petrarca				Asian Railways in N, Ingraham																								
Layout Tour															L754 Deer Island, Oregon																										
General Tour									G774 Portland Saturday Market/Swan Island Dahlias																																
Prototype Tour											P713 Chehalis Centralia Railroad Excursion																														
Prototype Tour				P715A Oregon Rail Heritage Center #2																																					
Prototype Tour								P715B Oregon Rail Heritage Center#2																																	

Sun. 30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	11:00	11:30	12:00	12:30	1:00	1:30	2:00	2:30	3:00	3:30	4:00	4:30	5:00	5:30	6:00	6:30	7:00	7:30	8:00	8:30	9:00	9:30	10:00	10:30	
Expo Center																																	
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Portland area

Model Railroad Clubs

Aloha Western Oregon Lines Model Railroad Club
12755 SW Beaverdam Road, Beaverton, OR 97005

Beaverton Modular Railroad Club
6149 SW Shattuck Road, Portland, OR 97221
Meets Wednesday and Friday

Catlin Gabel Model Railroad Club
8805 SW Barnes Rd, Portland, OR 97225
Meets Tuesday and Thursday

Columbia Gorge Model Railroad Club
2505 North Vancouver Avenue, Portland, OR 97227
Meets Tuesday

Columbia River N Scale Club
1809 NE 39th Ave., Portland, OR 97212
Meets Saturday

Mt. Hood Model Engineers
5500 SE Belmont St, Portland, OR 97215
Meets Tuesday

Polk Station Rail Model Railroad Club
280 Main Street, Rickreall, OR 97371
Meets Thursday

Southwest Washington Model Railroaders
8100 E Mill Plain Boulevard, Vancouver, WA 98664
Meets Monday

Willamette Model Railroad Club
15711 SE 90th, Clackamas, OR 97015
Meets Monday and Thursday

See www.2dpmr.org for more information, and groups who do not have club rooms or meeting frequencies, or are outside the Portland/Vancouver urban area.



s elkirk express 2016

June 15 - 19, 2016

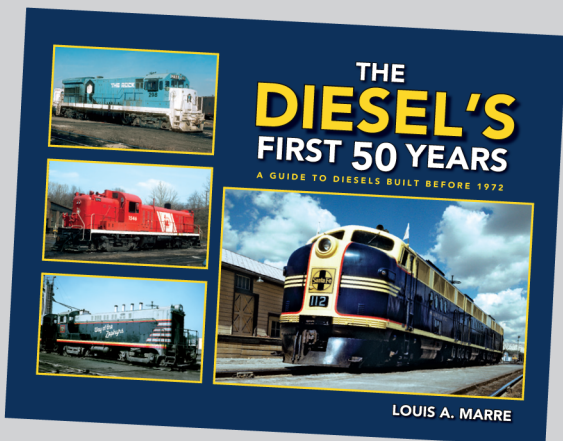
Pacific Northwest Region -
Selkirk Express 2016 Convention
Salmon Arm, British Columbia, Canada

The Prestige Harbourfront Resort & Convention Centre
251 Harbourfront Drive, NE, Salmon Arm, BC
www.prestigehotelresorts.com

Train Show at Shaw Centre
2600 - 10th Avenue, NE, Salmon Arm, BC
www.salmonarmrecreation.ca

www.selkirkexpress2016.ca/

NOW SHIPPING!



Spotlighting North American Diesel production from its inception to 1971, this new book features many never-before published photographs in both sharp black and white and stunning color. Noted author and historian Louis A. Marre documents each manufacturer, model type, years produced, and what railroads received each model.

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N SCALE PRR K4s 4-6-2 PACIFIC with DCC-SOUND: SUPERIOR CONSTRUCTION AT A SOUND VALUE PRICE



The *K4s 4-6-2* is now available in Bachmann's line of N scale DCC sound-equipped locomotives with our Sound Value *SoundTraxx*® steam package that includes authentic prototypical chuff, short and long whistles, bell, air pump, steam release, and blower—all in 16-bit polyphonic sound. This engine also features a die-cast chassis, precision motor, and finescale detailing. Front-end details vary per prototype with the Pre-War *K4* models, based on a World War I-era model, having the distinctive “chicken coop” slat pilots, while the Post-War versions are equipped with modern pilots. Visit your favorite hobby dealer to enjoy this superior sound-equipped steam engine at a Sound Value price!

K4 features include:

- DCC sound-equipped
- precision motor
- die-cast chassis and boiler
- front-end details (headlight, generator, pilot, number plate, marker lights) per prototype
- precision machined brass flywheel
- all-wheel pickup in engine drivers and tender
- separately applied metal handrails and stanchions
- LED headlight
- metal wheels and siderods
- metal cut levers
- see-through frame
- NMRA RP25 wheel profiles
- super detailed parts including machined brass safety valves and separately applied tender ladders
- magnetically operated *E-Z Mate*® Mark II couplers

Item No. 52851 PRR POST-WAR with MODERN PILOT #1361

Item No. 52852 PRR POST-WAR with MODERN PILOT #3750

Item No. 52853 PRR PRE-WAR with SLAT PILOT #5448

Item No. 52854 PRR PRE-WAR BRUNSWICK GREEN #5440

PRR PRE-WAR BRUNSWICK GREEN #5440
Item No. 52854

SHIPPING FALL 2015
Price to be announced



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