

# PROTOTYPE RAILS 2020

Rev. 06

Mark Amfahr: **The Surprisingly Fascinating Story of the UP's First 20 Years.**

The late 1800's were a surprisingly interesting time for the railroads. Join Union Pacific historian Mark Amfahr to learn about this fascinating era that few have researched. Imagine an era when gauge, couplers and airbrakes were not standardized. How did they operate railroads under such conditions? Come to the clinic and find out!

Frank Angstead: **Manufacturing the Intermountain Way.**

Intermountain Railway Company returns to Prototype Rails with the latest info on how they manufacture and import scale model trains.

John Barry: **Shake-N-Take: Santa Fe's BX-34 40-foot Single Door Boxcar.**

The Prototype Rails tradition of Shake-N-Take continues! The project for 2020 will be a quick and easy conversion of an IM Modified AAR 1937 10'6" box with a complete Duryea underframe and brake rigging from modified commercially available parts. The clinic and handout will provide historical prototype information as well as how to build the model. Parts will only be provided to the first 35 clinic registrants (25 pre-registered online and 10 who register in-person at Prototype Rails).

Craig Bisgeier: **Now What? What to Do With Your New 3D Printer.**

This clinic goes through how 3D printers work, what are the strong and weak points of different types of printers on the market, what's best for modeling, lists good printers available at entry-level prices and tips on how to get the best out of your prints. This clinic is fresh and up to date as well, as there has been so many changes of late in the market that the emphasis has shifted from Filament-based printing to UV-sensitive liquid resin printing in just the last few months.

George Bogatiuk: **The Nuts and Bolts of DCC.**

In this clinic, George Bogatiuk of SoundTraxx will take you behind the scenes to show you how DCC actually works. We'll look behind the curtain to see the DCC signal, how it is sent, differences between different DCC systems and how knowing these details can help remove much of the frustration DCC can cause. Learn to operate your layout with the mastery of an industry insider!

George Bogatiuk: **Tsunami2 and You.**

In this clinic, we'll look at some prototypical operating scenarios and how we can duplicate these using the Tsunami2 decoders. We'll discuss steam locomotives, diesel locomotives, brakes and how they are used, yard scenarios and how the Tsunami2 will be able to bring more operational realism and more fun to your railroad operations!

Mike Boland: **Long Island RR Multiple Unit (MU) cars.**

For over a century the Long Island Rail Road has operated many types of multiple-unit (MU) passenger cars in many classes on its electrified territory. In this clinic, LIRR

author, fan, rider and modeler Mike Boland will present a review from the early MP41 Gibbs cars that began electrification in 1905 to the present day M9's. No railroad had the fleet of cars that the LIRR had--and has--and this presentation, perhaps the first of its kind, will cover ALL MU's--control motors, motor trailers, trailers, coaches, combines, baggage-mail cars and a host of others, including the presenter's favorite: the double-deckers.

Al Brown: **Building a PRR X23b Boxcar.**

Start with a single-sheathed boxcar (PRR X23). Turn the sheathing 90 degrees, remove some of the side trusswork, replace the roof with a "turtleback" model, and you have an X23b. (There were 756 of them.) The process of parts- and part-scratch-building an X23b will be described, along with recovery from mistakes of which there were many.

Jeff Cauthen: **The SP Starlight, 1949-57.**

This clinic will cover the Southern Pacific post WWII passenger train, The Starlight, Nos. 94-95. This is NOT the Amtrak train of the same name. Coverage of locomotives, cars, and other interesting tidbits for the period 1949-1957. Will include information on HO brass cars, which may be used to model the train.

Ted Culotta: **Thoughts and Considerations for Scratchbuilding Freight Cars.**

This discussion focuses on how to make parts from scratch for use in enhancing existing models or making models entirely from scratch, both for one-off instances as well as for duplication by casting. Tools and materials will be covered in addition to reference materials and techniques.

Andrew Dahm: **Tips on Building Westerfield Resin Kits and New Patterns.**

Join Andrew Dahm, owner of Westerfield Models, as he shares his tips on building resin kits. If you haven't tried it, you'll find that it's easier than you think! He'll also give advice on building new master patterns for resin casting.

Bill Darnaby: **Nearing the End (of Scenery).**

An update on Bill's famous HO scale Maumee layout that will focus on scenery techniques and photo backdrops.

George Eichelberger: **Prototype Modeling - Beyond Rolling Stock.**

Asheville, NC - From Murphy Jct. to Old Fort

This is NOT a clinic on benchwork, scenery building structures or track work. It shows an example of using whatever data and photos can be found to create a layout based on a specific prototype. In addition to the physical design of the Southern "S Line" between Murphy Junction and Old Fort, it discusses prototype operations on the line over time to help decide which features should be included in the most detail.

Randy Hammill: **New Britain Station: My Journey into Prototype Model Railroading.**

A look at what prototype modeling is, and why and how I'm modeling the New Haven Railroad in New Britain, CT c1946-1954.

Steve Hile: **Modeling Bureau Junction, Illinois.**

Steve will share the story of his research into Bureau Junction, Illinois and his plans for an operating diorama layout based on this busy location at the steam/diesel transition on the Rock Island.

Roger Hinman: **New Haven Baggage Cars 1900-1967.**

A look at the baggage cars of this high traffic volume New England railroad and how it changed over the decades.

Thomas Klimoski: **Filming and Producing Model RR Videos.**

In the presentation Tom outlines the benefits of making videos and reviews the equipment needed to produce high quality videos. In addition, Tom will cover various filming, editing, and post production procedures to make interesting and engaging videos that viewers will enjoy. Video samples will highlight the techniques presented in the presentation.

Tony Koester: **Wingate: A One-Town O Scale Project Railroad.**

*Model Railroader* contributing editor Tony Koester provides an overview of the portable O scale (Proto:48, actually) project railroad he built for a series of articles that began in the January 2020 MR covering research, planning, construction, scenery, structures, and operation.

Greg Komar: **Drone Photography as a Modeling Tool.**

Greg, a licensed pilot, will give an overview of the potential of "flying cameras" for the planning and building a model railroad. Examples from a 20 day road trip to the Finger Lakes Region of New York State to document the look of the area and create photo backdrops for the Sequoia Buoyant Transfer Company, loosely based on the Pennsylvania's Elmira Branch.

Dave Lambert: **Mail and Express Trains 1a: East and Southeast of Chicago & St. Louis.**

This clinic is Part I(a) of a multi-part series dealing with the Mail and Express trains of the United States. The clinic series is designed for prototype modelers interested in accurately modeling these very interesting trains. This session covers the trains east and southeast of St. Louis and Chicago. Specific railroads covered (or mentioned) are the New York Central, Pennsylvania, Baltimore & Ohio, Richmond, Fredericksburg & Potomac, Washington Terminal, Southern, Atlantic Coast Line and Seaboard Air Line. Where available, typical and actual consists are shown and summaries of most common home road and foreign line headend cars are given.

Jim Langston, III: **Modelling Amtrak 1971 – 1982.**

An in depth overview of modeling Amtrak from 1971 to 1982. 80% new and revised material and never-before seen prototype photos. Comprehensive review of sources of information and detailed listing of models made in last 30+ years. Detailed new free handouts on available models by manufacturer (cross-listed with actual Amtrak roster) and consists.

David Leider: **Modeling the Vinegar Industry.**

Come to this clinic to learn how vinegar was made, what it was used for and how it was transported. Since it is corrosive, it had to be shipped in wooden tank cars. David will also show examples of vinegar cars and who owned them.

Tom Madden: **Recent Adventures in 3D Printing.**

It's been three years since I retired from the 3D printing business and became a customer instead of a provider. In those three years the technology has advanced well beyond my most optimistic expectations and is now a very useful tool. I'll show some of my recent 3D printed projects, both large and small, and discuss how the improved technology made them possible.

Carl Marchand: **Using the ESU LokProgrammer – A Closer Look.**

The ESU LokProgrammer is a great tool to have if you have ESU Loksound or LokPilot equipped motive power and rolling stock. More than a CV programmer, it allows you to upgrade the decoder's sounds and / or add features as they become available. We will take a deep dive into the LokProgrammer software, with step by step demonstration, learning some tips and tricks along the way. A MUST if you want to get the most out of your ESU decoders.

Greg Martin: **Modeling the Santa Fe Fe-26 Box Car.**

Greg will show how he modeled an AT&SF Fe-26 boxcar in HO scale, starting with the C&BT shops kit.

Ryan Mendell: **Machinist's Tools for Modelling - Part 1 Hand Tools.**

Ryan will introduce various machinists hand tools he uses to make modelling easier and more precise. Techniques to use each tool will be presented, with a focus on how these methods can be applied to kit-bashing, scratch building and pattern making.

Lance Mindheim: **Color Strategies.**

Aside from composition, no other factor contributes more to the visual success of a model than color treatment. Clinic covers: understanding prototype colors, color selection, inserting contrast, transitions and edges, and overall application techniques. We'll also delve into techniques for modeling some of the more commonly found surfaces such as concrete, metallic, and masonry.

Jim Murrie and Naomi Petersen: **Pullmans For Patients.**

A brief history of how railroads handled disabled passengers during the "Golden Era". In 1930 Pullman built two sleepers, Joseph Lister and Ephraim McDowell, specifically to handle passengers to the Mayo Clinic from Chicago. They continued in that assignment for 20 years. In 1937 the San Lucas was used to transport a polio patient in an iron lung. It continued in that role for 17 years. This clinic is a history of those three cars, their use, and the issue of accessibility in the early 20th Century.

Bill Neale: **Coal, Zinc, and Moly - The Burgetts Branch.**

The Burgetts Branch was a coal centric series of short branch lines in southwestern Pennsylvania. This was one of the most productive coal producing areas in the world for a time. Great photos of mines, tipples and yards. Some operations information. This branch also serviced American Zinc and Climax Molybdenum plant. Good photos of those industries also. This clinic is prototype only. Anyone who has interest in coal mines and branch line operations would find this interesting.

Joe Oates: **How the Railroads Handled Mail and Express.**

Joe will review 155 years of Mail and Express operations in 60 minutes! Come and learn about this fascinating and lucrative business. You may find some new and interesting ways to model this traffic.

Steve Orth: **Kitbashing 1970's Brass Passenger Cars.**

Learn how to totally re-work an older brass model. More than just adding a few detail parts, you'll learn how Steve started with a Soho diner and replaced the poorly rendered roof, added air conditioning, interiors, and replaced the trucks. At the end, you'll know how to bring a 1970's brass model up to today's standards.

Frank Peacock: **Box Car Parts and Fittings 1920's - 1950's.**

This clinic will cover box car parts and fittings in the following order: sides, doors, ends, roofs and under frames. Auto cars will also be mentioned. There will be a handout.

Naomi Petersen and Jim Murrie: **Pullmans For Patients.**

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Clark Propst: **Building A Granger Branch Freight Car Roster.**

Attendees will learn how to build a prototypical freight car roster based on prototype documents. Clark will show how he used lists of customers and station agent records as a guide for his freight car roster.

Alex Schneider: **Rebuilt Heavyweight Pullman Sleepers Assigned to the New York Central.**

This clinic discusses heavyweight Pullman sleeping cars which were rebuilt and modernized in the 1930s. The primary motivation for undertaking this was to offer double bedrooms on selected trains, an accommodation intermediate in space and price between a section and a compartment or drawing room, and offering private toilet and washbowl. Although coverage is focused on cars assigned to NYC service, additional plans used elsewhere will be discussed. The mechanical features, train assignments, and modeling opportunities will be discussed, as well as the business case for retaining or rejecting cars at the time of the 1948 divestiture of the Pullman operating company and the sale of its cars to the railroads.

Jim Singer: **Early 1960's Midwestern Passenger Specials (Revised).**

A look at passenger traffic opportunities by the CB&Q at a time of change for passenger traffic. Generating business for yourself and others(connections) in the Upper Midwest and Southeast through Chicago, St. Louis, Kansas City and Omaha. Boy Scouts, Rail Fans, Shriner's, and Luther Leaguers.

Jim Singer: **Lakes States Railway Historical Societies Photo Collections Part II.**

All new material! Newly Scanned items from the Ed Willkommen Collection, F.R. Ritzman Collection, and F.A. Cole which between them all covers mostly Midwestern roads during a period of the 1920's to the 1960's.

Bruce Smith: **WWII Military Loads Part 3.**

This clinic will feature a wide variety of military loads from the WWII era. Prototype data will be used to illustrate potential traffic patterns and photos will demonstrate loads and how they were secured. Modeling approaches and resources will also be discussed.

Al Sohl: **How to Add an Interior to a Kit- or Scratch-built Structure.**

Learn from Master Model Railroader Al Sohl as he presents his approach to adding interiors to structures. Whether kit-built or scratch-built, interior details add realism for viewers and satisfaction for the modeler. A few samples will be provided for attendees to practice with. You can do it!

Mont Switzer: **Favorite Freight Car Projects 9: the Nickel Plate Road.**

This clinic is a review of the Nickel Plate freight car, locomotive and caboose projects that I have completed over the years complete with prototype documentation.

Gil Thomas: **Modeling Considerations for the 1950's modeler.**

American railroads are quickly retiring their steam locomotives and purchasing new diesel locomotives. This clinic will review the major changes in railroading and help to give the 1950's modeler a clearer focus for their modeling efforts.

Tony Thompson: **Transition-era Freight Traffic on SP's Coast Route.**

The patterns of freight traffic of this specific part of the Southern Pacific are described and analyzed, both in terms of trains and the traffic they carried. This includes discussion of the distinctive yards and terminals on the route, the steam and diesel power used on the trains, helper operations, and freight movement patterns.

Tony Thompson: **Using Typography in Model Railroading.**

We need to understand lettering in time and place. This means use of fonts of the correct era and style for the modeling we are trying to achieve. That's an aspect of typography. Typography is design with type, essentially the arrangement and use of letters. This sounds remote from model railroading, but in fact modeling contains lettering in many places, from freight and passenger cars to layout elements such as billboards, industrial signs and logos, highway signs, and location names. And we may also prepare timetables,

train orders, waybills, or track bulletins. For all of this, we need some knowledge of typography.

Bob Webber: **Pullman Operated and Built More Than Sleepers and Parlors.**

In addition to the more mainstream Operations, Pullman Co. was involved with head end, coach, chair, dining and other passenger car operations, and Pullman-Standard Manufacturing was involved with other than the construction of passenger and freight cars. This clinic introduces some of the more obscure passenger related Operations and Manufacturing processes and products not normally associated with these two companies.

Bill Welch: **Louisville & Nashville House Cars: 1935-55.**

One of the largest railroads in the southeast and typically associated with hauling coal, the L&N operated a diverse fleet of rolling stock to serve "The New South." The L&N owned 36-ft., 40-ft. and 50-ft. house cars to serve the mixed economy of their territory.

Bill Welch: **Louisville & Nashville Open-Top Cars: 1935-55.**

One of the largest railroads in the southeast and typically associated with hauling coal, the L&N operated a diverse fleet of rolling stock to serve "The New South." While owning a very large number of coal hoppers, the L&N fleet also included large numbers of other open-top cars.

John Wilkes: **Aging Models with Alcohol.**

This is a 'hands on' clinic. Anyone who wants to try their hand at 'fading' a model should bring a model that has been sprayed with Testors Dullcote or Model Master Lusterless Flat. I'll have airbrushes, alcohol, alcohol washes and clamps. If your model is already Dullcoted, you should be able to participate. Others will be able to observe. A 'first come' sign in sheet will be used.

Tom Wilson: **Mifflin Jct. - Implementing an LDE.**

Tom will show how he developed the LDE for Mifflin Jct. on his P&WV and Union Railroad. He'll show how he fit it into the layout and how he used a Cricut machine to build the buildings.

Craig Zeni: **Building a Penn Central F7.**

Craig will share prototype information and modeling using the Highliners body kit. Emphasis is on the ex-NYC units as they made up about 3/4 of the PC F7 fleet.