



The newsletter of
the Central Indiana
Division of
the Midwest Re-
gion, National
Model Railroad
Association

Volume 45 – Number 4 July – August 2015

Get Ready For Fall

Soon it will be time to begin making your plans to attend or participate in fall CID model railroading events and we have a few planned for you. Three big ones as a matter of fact starting with the fall Modelers Meet. We will be holding it on October 10th in Ellettsville, Indiana at the Ellettsville 1st United Methodist Church (See map below for directions). Ellettsville is located 4 miles west of Bloomington on SR 46. The theme this time is painting but again you are welcome to bring anything that you are working on and can be in any state of completion.

We will also be having our annual Carmel Library Show which is a display show of portable layouts only on November 7th. This show attracts around 800 children and adults and is very popular. If you have a chance you should stop by and see all the trains.

Finally we have the Danville Meet with all the

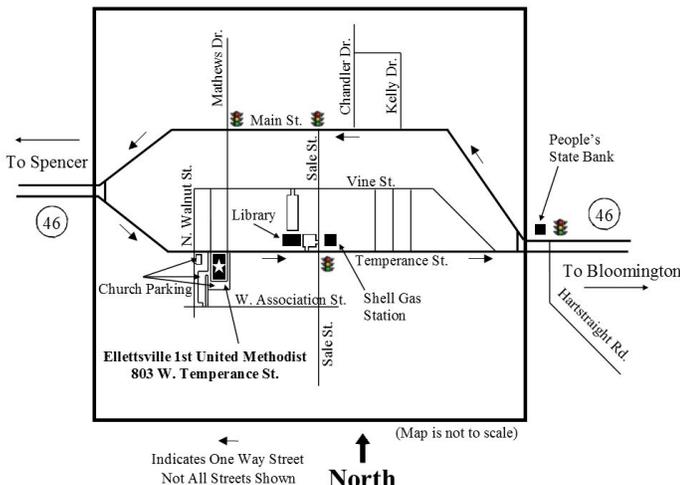
vendors, layouts and clinics. It will be held on November 21st at the Hendricks County 4-H Fair Grounds.

So mark those calendars with these CID events.



Charles Malinowski discusses "S" scale with a curious onlooker at the annual Carmel Library Show.

Ellettsville
(Exploded View)



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The **RUSTY SPIKE** is the official publication of the Central Indiana Division, Midwest Region, National Model Railroad Association, and is published at least five times a year just prior to meets. It is sent FREE to all N.M.R.A. members in the C.I.D. and non-members may subscribe for \$6 per year. Articles for publication are welcome for the benefit of the readers and the hobby but cannot be paid for. Submit articles for publication to the Editor; address changes or mailing problems to the Circulation Manager; and advertising or advertising inquiries to the Publisher.

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The Columbus Area Railroad Club is dedicated to serving all those interested in the preservation of railroad history through the use of modeling, photography, artifact preservation, and railfanning.

Memberships are available

We have operating layouts in O and On-30 and we are in the process of building new layouts in HO and N scales. Come and see the progress and our new home!

Public Hours:

Third Saturday of the month except September

12 p.m. to 4 p.m.

Free Admission

Location:

Johnson County Park
Park Building
2949 North Street
Edinburgh, IN

Questions/Info:

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columbusarearailroadclub.com



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THE BURLINGTON ZEPHYR – THE STAINLESS STEEL TRAIN

By Frank Hermanek, MMR

2009 marked the 75th Anniversary of the Burlington Zephyr stainless steel train; the train that broke all records and forever changed the way passenger trains would be built.

In 1912, Germany's Krupp Steel Works was looking at ways to improve the oxidation resistant of high temperature alloys. They knew that chromium and nickel, when added to iron, made an alloy with good rust resistance. The was kept secret until 1920 when patent rights were given to the English who improved it to develop the now familiar 18-8 stainless steels.

The Budd Company

The Budd Company, in 1920 was the largest manufacturer of pressed steel/welded automobile bodies. In 1924, they teamed up with Michelin tire, to make dual wheels for trucks and buses. By the time the Great Depression came around business had dropped and Budd needed new products to keep his company going. He impressed by the Chrysler Building's silvery dome that required no painting. He also learned that stainless steel could be cold-rolled into sheets three times stronger than structural steel so he bought some. They were made into airplane parts, marine hardware and some trailer truck bodies, but none would lead to any substantial business.

The Stainless Steel Airplane

On an impulse, Budd decided to build something beyond anyone's wildest dreams—an airplane. He wasn't going into the airplane business, but it gave his engineers an opportunity to work with the material and develop manufacturing techniques. One thing quickly learned was-welding cold-rolled 18-8 stainless steel causes it to lose its strength. Enter Budd's Chief Engineer Col. Ragsdale an expert at resistance spot welding. He developed parameters to join thin sheets

with no loss of mechanical properties. The colonel promptly applied for a patent.

In 1931 an airplane was actually built based upon an Italian amphibian, a Savoia-Marchetti. The plane was built using 6-mil sheet joined by spot welding. It weighed just 1750 pounds and carried a pilot and two passengers. Spot welding and 18-8 stainless steel became a pair.

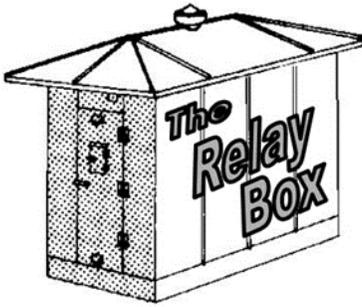
Steel Rail Cars

Returning to the Budd-Michelin joint venture. Andre Michelin had the idea that railroads would be interested in a quiet running train—one that ran on his tires. He approached Budd to inquire if he would build a lightweight railcar. Budd accepted the challenge and the *Lafayette*, a gasoline powdered, thirty-two passenger, stainless steel railcar was designed and built. Orders for more Budd-Michelin railcars were received from the Reading, the Pennsylvania RR and the Texas-Pacific.

Meanwhile, in Chicago, Ralph Budd, president of the Chicago, Burlington & Quincy Railroad was dreaming of ways to improve passenger rail traffic. Learning that the E.G. Budd Company was building lightweight self-propelled passenger cars made from a new material called "stainless steel" he visited them and took a ride in one of the cars; he was impressed and promised to "get back". Legend has it that he was reading a poem "Ode to the West Wind" about the Greek god Zephyrus and in a flash decided he would call his new train the "*Burlington Zephyr*".

In June 1933 he returned to Philadelphia and told Edward Budd that he wanted a three-car train powdered by a Winton diesel engine—and no rubber tires. The lead designer was Albert Dean who used aircraft and wind tunnel

(Continued on Page 7)



**Keith Clark
CID, Superintendent**

As the summer rolls along I find it extremely difficult to find time to work on

my personal model railroading projects. I sincerely hope that you have had some opportunity to do some modeling of your own whether it be working on a layout, doing some “armchair modeling” or catching up on things in the latest issues of modeling magazines that you might subscribe to. Mind you I am not complaining about the lack of time I have for my trains, my time is just being directed toward other model railroading endeavors that I have chosen to do.

As your superintendent, my time working on CID things has increased. Then taking on the management of the Danville Show this year has proven to be an enlightening experience. Things continue to fall in place and I guarantee that the show will be as good as it was when John Pancini was that shows manager. Then I continue to fall behind editing and publishing the “Rusty Spike” and this issue is no exception. Writing this column is probably my biggest excuse for not getting it out earlier but I think that I may be looking to hard for things I think you would like to here about from me.

So while on the subject of the *Rusty Spike* I would like to make a plea for some of you to help out with articles that might be included in future issues. For example this issue has been a tough one to fill and is another reason for it being behind in getting out. I feel like I am mimicking Model Railroad Craftsman before White River Productions took it over in being a month behind in getting the “Spike” published. I know that you guys have done some great things on your layouts because I have seen some of them. I am not looking for some five page spread like you would find in Model Railroader or Model Railroad Craftsman. Just a one page or less article on some little project that you did with the how’s and why’s and maybe include a picture along with it. My bet is that members

would love to see what you did and get ideas to use on their own layouts. If you would like help getting something together just email me at gtwfan@bluemarble.net and we can discuss it.

More of my time is also being spent this summer on helping get things organized for the CID’s sponsoring of the National Model Railroad Associations 2016 Convention which is being held in Indianapolis. This includes helping friends in the local area get their layouts ready for tours and operating sessions come time for the convention.

If you have never attended a national convention then you should not miss out on this one. It is as close as one will ever be for most of you. We have a great price for the convention, the hotel and of course the National Train Show will be in the Indy Convention Center. That’s just a gerbil tube away from the hotel. Make sure you go out to the website at www.nmra2016.org and see what has been put together for you at this time. The team working on this project has been spending many hours collecting information on everything from layout tours, banquets, the conventions car, clinics, non-rail activities, etc. and reporting back at meetings being now held monthly.

While the team works hard now to set things in place for next July I hope that you, the CID members, will make some plans to help out. We will be needing people to help with the many jobs that have to be taken care of during the week of the convention. This could be as small as working the bag check at the auction door for 2 or 4 hour shift. But were are going to rely on the help of many of you for things like this to make this convention be a success. Contact Steve Studley sastudley@comcast.net or Tom Cain at atsf93@comcast.net to volunteer.

Well I hope that have cause you to think a little bit about some ways that you could help out. You are a part of the CID. It is you that your board works had very hard for and we hope that we offer great things for you, But believe it or not, the board can’t do it all. If you think we can we must be doing one heck of a job.



Central Indiana Division
of the
National Model Railroad Association
presents

Model Railroad Show
Saturday—November 7, 2015

Location: Carmel Clay Public Library
55 4th Ave S.E., Carmel, IN 46032

Time: 10AM until 3PM

Admission: FREE

What: Operating Layouts, Demonstrations, and Displays



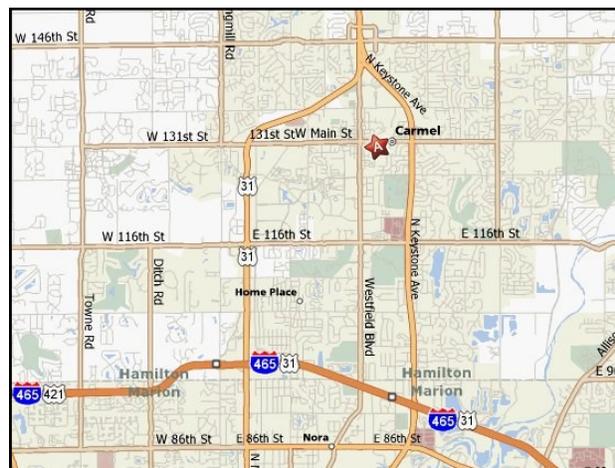
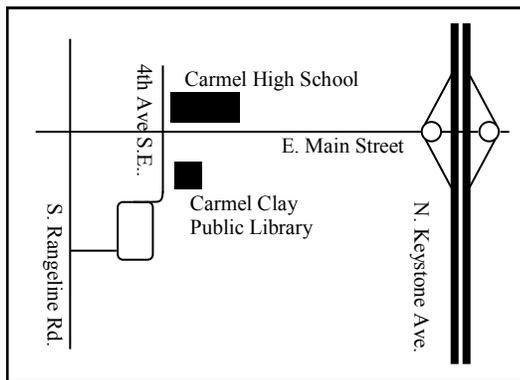
Want to learn more about what we believe is the World's Greatest Hobby? Then come out to the Carmel Clay Public Library, see operating trains, take part in demonstrations and talk model railroading with model railroaders that you will meet there.

Scheduled Activities

- Layouts and Displays
- On-going Scenery-layout Construction
- Circus Model Builders Displays
- Children's Layout Scavenger Hunt

Next Show & Meet: November 21, 2015
Hendricks County 4H Fair Grounds
Danville, IN—10AM to 3PM

For more information: Trevor Jones at trevjn@sbcglobal.net



Upcoming Events

– Division Schedule –



Fall Modeler's Meet – October 10, 2015 – Ellettsville, IN

Ellettsville 1st United Methodist Church, 803 W. Temperance St., Ellettsville, IN
10am-3pm Admission Free
Bring current modeling projects for show and tell

For more information: Steve Studley at studley@indiana.edu

Carmel Library Train Show – November 7, 2015 – Carmel, IN

Carmel Clay Public Library, 55 4th Ave S.E., Carmel, IN 46032
10am-3pm Admission Free
Operating layout displays

For more information: Trevor Jones at trevjn@sbcglobal.net

Danville Train Meet – November 21, 2015 – Danville, IN

Hendricks County Fair Grounds, Danville, Indiana
Dealer Show & Meet – 10am to 3pm - \$3.00 per person/\$5.00 per family
Operating layouts, vendors, door prizes, contests, food and free parking
Dealer tables \$16.00 each (8' table)

For more information: Keith Clark at (812) 876-6799 or gtwfan@bluemarble.net

– Extra Board –

Columbus Area Model Railroad Club 15th Annual Train Show & Swap Meet September 12, 2015 – Edinburgh, IN

Johnson County Park at the Park Office Building, Edinburgh, IN
10am-4pm - Admission is FREE! Meet is held in conjunction with the Heart Nut Festival.

At our swap meet we will have both vendors and individuals selling their wares. There are three operating layouts in the clubroom in various states of completion, four if you include our Z gauge layout - something for everyone. Besides the activities at our club show, the Indiana Live Steamers will be operating at the park that day, and there will be other exhibits and activities of potential interest to CID members and their families.

For more information: Bob Morrison (812) 378-4275

Monon Railroad Historical Society Swap Meet - September 27, 2015 - Noblesville, IN

Hamilton County Fairgrounds, 2003 Pleasant Ave., Noblesville IN
10am-3pm Admission: \$3.00 per person/\$5.00 per family
Vendors, Clinics, Food
Tables \$15.00 ea. or 2 for \$25.00

For more information: Ron Simunic at (812) 333-6074 or simunic22@att.net

World's Greatest Hobby on Tour - January 9-10, 2016 – Indianapolis, IN

Indiana State Fair Grounds Blue Ribbon Pavilion
Admission-Adults: ? at this time, Kids under 16: FREE
10am-6pm Saturday/10am-5pm Sunday

For more information: <http://www.wghshow.com/index.html>



Highball to Indy – NMRA National Convention – July 3-10, 2016 – Indianapolis, IN

Westin Hotel & Indianapolis Convention Center
50 S. Capital Ave., Indianapolis, IN 46204
National Train Show July 9-11, 2016, Indianapolis Convention Center

For more information: <http://www.nmra2016.org>



(Continued from Page 3)

technology to develop the streamline body that included. Enclosing the undercarriage to reduce drag. John Harbeson, an architect, designed the shovelnose. A radical design was to have only the center car with trucks and sharing them with the before and after cars. This created an “articulated train” permitting the cars to turn on roller bearings pivots; it also eliminated two couplers. The completed train was 196 feet long and weighed 104 tons or about the weight of a single Pullman coach. Its sides were fluted stainless sheet; the car body was primarily 12-mil sheet and the roofs 22-mil corrugated sheet. Joining was by resistance “spot welding”. Final cost was about \$260,000 or \$3,640,000 in 2008 dollars.

Dedication and “The Run”

The formal dedication was on April 18th at Philadelphia’s Broad Street Station followed by a three-week thirty-city tour. This was just the beginning as Ralph Budd planned to race the *Zephyr* 1015 miles, from Denver to Chicago—all nonstop. All kinds of preparations were made including stopping rode traffic at 1689 grade crossing at the time the train would be passing.

At 7:04, May 26th the train left Denver’s Union Station; three engineers were in the driver’s compartment. They would man the controls in

two-hour shifts. Three mechanics also rode in the cab. The throttle was set at 90 mph for much of the trip and ran at 100 mph along one 90-mile stretch; it hit 112.5 mph for three miles. The *Zephyr* reached Lincoln, 483 from Denver in 6 hours, 7 minutes; the record set by the Royal Scot in 1928 had been broken. At 8:09 P.M. the *Zephyr* entered Chicago’s Halstead Station. Many records were set – it was a world’s record for the longest nonstop railroad run having sped 1014.4 miles in 13 hours, 4 minutes; average speed was 77.61 mph. The run was made in less than half the normal time. Fuel used was 418 gallons at an unbelievable cost of \$16.72. The Burlington Aristocrat, running the same route, burned 85 tons of coal at \$3.00 a ton.

The trip forever changed the way passenger trains would be built but also spelled the end of the steam engine.

The train on its second anniversary, was re-named the “*Pioneer Zephyr*” and ran for 25 more years covering 3.2 million miles.

Frank

Editor's note: Frank gave me this article to publish way back in 2009. It always was to long to fit in and then I just plain forgot about its existence. I hope you enjoyed reading it and my apologies to Frank for not printing it sooner.

Upcoming CID Board Meetings	
Date:	October 4, 2015
Location:	Indianapolis Marion County Library Wayne Branch Library 198 S. Girls School Road Indianapolis, IN
Time:	1:30 PM
<hr/>	
Date:	December 6, 2015
Location:	Indianapolis Marion County Library Wayne Branch Library 198 S. Girls School Road Indianapolis, IN
Time:	1:30 PM
CID members are welcome and encouraged to attend. Board members can confirm location and date.	

Rusty Spike Closing Dates
Volume 45 Issue #5 - September 6, 2015
Volume 46 Issue #1 - December 6, 2015
Volume 46 Issue #1 - February 7, 2016
Dates are tentative and subject to change.

<p>Attention – All notices of club open houses, or other shows & meets will be included in the Extra Board only if the official request form is used. This form may be printed off the CID website at: http://cid.railfan.net/Extra_Board_Request_Sheet.pdf Fill out the form and send to the address listed on the form. Upcoming deadlines for each Rusty Spike are listed in the Spike or may be obtained from Keith Clark (see pg. 2). Events not sent on the request form cannot be included.</p>



Call for 2016 Convention Layouts

If you have a layout and have not been contacted by a member of the CID and you would like to participate in the "Highball to Indy 2016" National Convention please contact Dennis Rahn at:

denrahn@hotmail.com or call 317-449-1137.

Call for 2016 Convention Clinics

We are also looking for individuals to present clinics on model railroading or prototype subjects. If interested contact Dan Goins at: santafedangoins@comcast.net or call 765-342-7069

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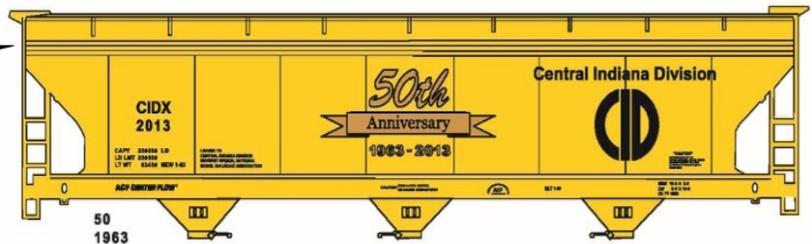
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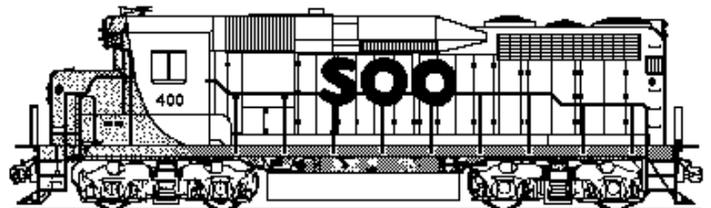
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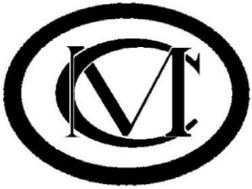

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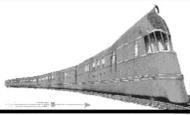

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