



# The OrderBoard

Newsletter of The Calgary Model Railway Society



*What is that coming through the snow shed? Read all about it in Scott Kuhn's article.*

*Photo by Scott Kuhn*

## Table of Contents

- President's Report
- CMT FleaMarket
- Layout Tours
- Building a GP20c-ECO
- SUPERTRAIN
- Kit Challenge
- Slide Night Report
- Railfan Events
- Coming Events

## President's Report

With the recent bouts of cold weather we have had, I'm sure many of you are huddled up inside working on your model railroads or related projects. I have been turning my attention to some diesel locomotive model projects that have been sitting on my to-do shelf for far too long. If you are working on an interesting project, why not take some photos as you go and write up an article for The Orderboard just as Scott Kuhn has done in this issue? I'm sure some of us will learn some new and different ideas from your article.

Bain Spielman handled the CMRS Trains For Kids program again this year. We partnered with the Salvation Army to help them fill their Christmas needs.



***President's Report Continued...***

PM Hobbycraft, Chinook Hobbies and Hobby Tech helped out by providing the CMRS with discounts on our purchases. Johnny Sorensen at Hobby Tech went a step above again this year by collecting donations for the Trains For Kids program. Refer to Bain Spielman's report in this issue for more details.

Bain is also handling Layout Tours on the weekend of February 24th and 25th. So far we have eight layouts set for the tour. Details are included with this issue of the OrderBoard. Please make the effort to come out and visit your fellow modellers' hard work. Again to protect the privacy of the layout owners, please do not forward or otherwise share this information with non-members of the CMRS.

The annual CMT Fleamarket and Spring Mini Meet is coming up on March 4th. For those that are participating in this year's Bouma kit building challenge, that is the deadline to have your kit built and ready for display so you can obtain your \$25 refund. Use your creativity and let's see as many finished kits as we can. Brookes Harrow and Paul Clegg are working on getting clinics setup for the Mini Meet but could still use some clinicians to fill some gaps. If you can present a clinic to your fellow model railroaders for the Spring or Fall Mini Meets, please let Brookes and Paul know.

While it is still some time off, planning is well underway for SUPERTRAIN 2018 on the weekend of April 14th and 15th. As always we need volunteers to help make the show the success it is. Jim MacArthur is again handling the volunteer coordinator position so make sure to answer his call for volunteers when it comes. You can also sign up for volunteer positions at the upcoming Mini Meet.

*Al Matchett,  
President, CMRS*

**Spring Mini Meet – Call for Presenters**

Presenters are needed for two slots at the March 4, 2018 Mini Meet at the Glenmore Inn. Do you have a topic that you feel would be informative or of interest to your fellow model railroaders? Do you have a skill to share? Please let us know.

Let us know the topic and do you need anything in the way of projectors, computers or supplies? We will also be looking for clinic presenters for the October 2018 Mini Meet.

To sign up, please contact me at brookes.harrow@shaw.ca or call 403-201-4937 or call Paul Clegg at 403-281-2391.

*Brookes Harrow  
Mini Meets, CMRS Board*

 <p>3610 - 50.Ave SE, unit 23 Calgary, AB T2B 3N9 Canada 403-291-9398</p>	 <p><b>THE DISPATCHER</b> <i>Specializing in Digital Command Control</i></p> <p><b>BRUCE SHAW</b></p> <p>(403) 251-9334 10736 Maplecreek Dr. SE Calgary, AB T2J 1V5</p> <p>Discount prices on:      Digital    Atlas    Rapido      Penn      Kato    EiscoRail      Soundtraxx    Aristo    QSI                                Lemmonmountain</p> <p>Website - <a href="http://members.shaw.ca/dispatcher">http://members.shaw.ca/dispatcher</a>      Email: <a href="mailto:dispatcher@shaw.ca">dispatcher@shaw.ca</a></p>
--	--



<p><b>MEMBERSHIPS</b></p> <p>Calgary Model Railway Society memberships can be purchased or renewed at any of our events or by mail. Cost is \$10 per year, running from July 1 to June 30. Multi-year memberships are also available. Membership forms can be printed from our website.</p> <p>Completed forms and payment can be mailed to:</p> <p><b>The Calgary Model Railway Society</b>  <b>PO Box 8071, Station A</b>  <b>Calgary, AB T2H 0H7</b></p>	<p><b>ADVERTISING</b></p> <p>Do you have some Model Railroad related items for sale, or perhaps something rare you want? Consider an ad in the Orderboard. Text ads run twice free of charge for members (provided the ad is relatively small), and a \$15/year charge for business card size commercial ads.</p> <p>Contact the Editor at <a href="mailto:orderboard@calgarymodelrailway.ca">orderboard@calgarymodelrailway.ca</a> for details.</p> <p><b>Deadline for the next issue is Feb 25, 2018</b></p>
---	--

**Board of Directors**

<p><b>Al Matchett - Independent President</b>  <a href="mailto:al.m@shaw.ca">al.m@shaw.ca</a></p>	<p><b>Paul Clegg Independent Clinics</b>  <a href="mailto:pjclegg4@gmail.com">pjclegg4@gmail.com</a></p>	<p><b>Jim Ironside - Free-mo Secretary</b>  H- 403-254-8116  <a href="mailto:ironsidejim@gmail.com">ironsidejim@gmail.com</a></p>	<p><b>Rod Alexander - Rocky Mountain Garden RR</b></p>
<p><b>Rick Walker - Independent Treasurer, Nominations</b>  <a href="mailto:walkr@telusplanet.net">walkr@telusplanet.net</a></p>	<p><b>Selwyn Morris - Cantrak Membership</b>  <a href="mailto:memberships@calgarymodelrailway.ca">memberships@calgarymodelrailway.ca</a></p>	<p><b>Brookes Harrow - CMT Clinics</b>  H - 403-201-4937  <a href="mailto:bharrow@nucleus.com">bharrow@nucleus.com</a></p>	<p><b>Rob Badmington - Independent Vice-President, Slide Night, Railfan Events</b>  <a href="mailto:badmington@shaw.ca">badmington@shaw.ca</a></p>
<p><b>Bain Spielman - Independent Layout Tours, Trains for Kids, Railfan Events</b>  <a href="mailto:bainspielman@shaw.ca">bainspielman@shaw.ca</a></p>		<p><b>Brent Ciccone Bow Valley OrderBoard &amp; Communications</b>  H- 403-283-0325  <a href="mailto:orderboard@calgarymodelrailway.ca">orderboard@calgarymodelrailway.ca</a></p>	

**CMT Annual Fleamarket 2018**

Last year, some potential vendors were disappointed when all tables were sold. Don't miss the train this year! The Calgary Model Trainmen's Club Annual Fleamarket is coming 'round the bend! Once again, this event will be held together with the CMRS Spring Mini Meet.

Date- Sunday March 4, 2018

Time- 8:30 am to 11:00 am [Note the time.]

Location- Glenmore Inn, corner of Glenmore Trail and Ogden Road

Tables- \$20 for standard 2' X 8' size table (half tables are also available for \$10, to be shared with another vendor). Don't be disappointed when all tables are gone. To book a table, please contact me at [brookes.harrow@shaw.ca](mailto:brookes.harrow@shaw.ca) or call 403-201-4937.

*Brookes Harrow*

**Foothills & Western Z Rail Assoc. seeking members.** We do not charge fees, instead, we would like you to invest your time and skills in helping to complete our layout. We require people of any age with a keen interest in model railroading and have 4 to 5 hours a week to spare. If you have rock steady hands, a keen eye for detail, ability to work with very small objects, nerves of steel, a "can do" attitude, take pride in your accomplishments and have the ability to troubleshoot, come see us. Interested parties please call Ken at 403-601-6912.



 <p><b>MONASHEE LASER ENGINEERING</b> IF WE CAN DRAW IT ... WE CAN MAKE IT Railroad Structures and Rolling Stock Rick McPhee E-mail: vulcanrider2008@ymail.com Text/Voicemail: 403-585-7425 Website: www.monasheelaserengineering.ca</p>	 <p>Deciduous leaves in nine colours, from fresh Spring to bright Fall, standard or fine scale, also Branch Netting to enhance your trees. Ph.403-335-2890 <a href="http://selkirkleaf.com/">http://selkirkleaf.com/</a> Email: <a href="mailto:Selkirkleaf1@yahoo.ca">Selkirkleaf1@yahoo.ca</a></p>
---	--

## Layout Tours – February 24/25

Once again we are having tours of various Calgary and area layouts. Thanks to our layout hosts for opening their homes for the tours. Please respect the host's homes and express your appreciation for them opening up their layouts for the tour. The north-side layouts will be on Saturday, Feb 24<sup>th</sup> and the south-side layouts are on the Sunday, Feb 25<sup>th</sup>. Times are from 10:00 am to 4:00 pm both days. Details are either in the email sent for this OrderBoard or as a printed enclosure.

*Bain Spielman  
Layout Tour Coordinator*

## Building an HO Scale GP20c-ECO

After finishing my SD30c-ECO build I needed a new project, naturally CP's GP20c-ECO seemed fitting. This project was a lot more complex than the SD30 and ended up being quite the challenge. There were many nights I had to walk away and come back another day; to top it off during the initial painting the family cat decided to inspect my work, resulting in a walkway assembly that was in two pieces. Once complete the results were well worth it!



Let's start with a little history; the GP20c-ECO was produced by Electro-Motive Diesel (EMD) at their Muncie, Indiana plant. The first GP20c-ECOs were put into revenue service in 2013. Canadian Pacific (CP) put in an initial order for 30 units numbers 2200 – 2229. They then placed a second and third order for 40 and 60 units respectively, which were numbered 2230-2269 and 2270-2329. These units, like the SD30c-Ecos, aren't completely new. CP reused trucks, traction motors, main generators and air compressors from their GP9 fleet, however aside from these reused components everything else on these units is new. The GP20 has a similar long hood as a GP60, but most other areas are different. Some major differences are the larger cab which CP wanted for better crash worthiness, giving the units the C designation. Along with this they have a longer snoot nose, larger grills, modified dynamic brake and a new 710 prime mover providing 2000 horsepower.

As before with my previous unit, I began by doing lots of research and after looking over a pile of photos I determined that a Proto 2000 GP60 would be a good starting point. Instead of using only pictures for reference, this time I found drawings of these units on the following website <http://trainiax.net>. I scaled the drawings down until the frame of the GP60 matched the GP20 frame on the drawing. These drawings ended



up being worth their weight in gold as I could measure the drawing with my digital caliper and compare it to my unit.

Now that I had a unit to start with I began planning my cuts. I had to make multiple cuts to get the shell to be the proper size. First I cut the nose so I could make it longer then I cut the cab in half so I could add the new cab sides with three windows. For the long hood, I first removed the old blower housing and inertial filter screens and cut that area into two pieces, this area actually needs to be extended while the long hood section under the dynamic brake housing needed to be shortened. Next the dynamic brake housing and hood doors below got cut off the shell. I removed doors from either end of this section and cut the dynamic brake down to fit the size of the new long hood door section. Due to the decreased length of the long hood I had to shorten the raised walkways along the long hood which meant cutting the walkway away from the base and shortening it. I also had to remove a section on the locomotive engineer's side of the long hood for the new hand brake housing. Before starting to reassemble the unit I removed the old radiator grills, inertial filter screens and cut a hole for the new sand filler cap.

Now that my unit was in multiple pieces it was time to put it all back together again. I measured everything against my drawing and added styrene strips to the nose, cab roof and long hood until everything fit exactly to my drawing. Once I was happy with the overall length of everything I glued the main sections back together. Next I needed to modify the rear end. These units have a boxy looking radiator and rear head light and for this I added styrene strips to the top and filled in the space with putty. I also squared off the rear head light housing with putty. For the front end I only had to cut a hole in the nose for the new Pyle head light. I then started adding new parts from Cannon and Co, which included new SD40 inertial filter screens, SD50 inertial filter hatch, cab side windows, SP split equipment doors, EMD blower housing and GP60 radiator screens that had new styrene frames. The last major modification is the dynamic brake housing. I had to cut material off both ends of the existing housing and add new styrene to make it the correct length. I made new grills from brass mesh and built lift rings from styrene. The fuel tank on these units is shorter than the original GP60 tank so I started by removing the old fuel tank and cutting a section of it out. I spliced the two halves back together and filled the seam with putty. Now that the new tank is shorter it won't fit on the existing metal frame, so I had to cut it down. The fuel tank on the GP60 is round but the GP20 tank has flat spots so I sanded the tank until I achieved the same look. I completed the tank by adding some piping details from styrene and scrap wire. The air tanks above the fuel tank also needed to be shortened per the drawing.



The trucks on the GP20 were reused from CP's old GP9s which meant the GP60 trucks were incorrect. I was lucky enough to find a set of GP9 side frames from the local hobby shop; they were pretty close but had incorrect bearing caps, so I replaced these with new ones from Details West. Lastly I bent new brake cylinder piping from brass wire.

Unfortunately the original GP60 side handrails won't work for this unit. I ended up bending new handrails from brass wire and soldered on new stanchions from a Kaslo GP38-2 detail kit. The original end handrails worked well for this model. With this complete the unit was really starting to look like a GP20, but still needed quite a few modifications and details. Since the walkway was shortened and lengthened in the front because of the new longer nose I had to apply new walkway tread. I used an etched brass set from Cannon and Co. I added a new electronic bell, air dryer, front and rear air horns, half round styrene roof antenna, Kato SD40-2 snow plow, Kadee brake wheel, train line air hoses,





Proto 2000 SD60 ditch lights front and rear, lift rings, brass grab irons, and Pyle front and rear head lights.

If these modifications and changes weren't enough I figured I would try my hand at adding step, truck and walkway lighting. For the step/truck lights I built a rubber mold from a Proto 2000 step light detail part I had. I inserted 0402 LEDs with long magnet wire leads into the mold before pouring in clear resin. For the walkway lighting I first located all the spots on the prototype unit and drilled out small slots with a #79 drill bit. After painting I glued 0402 LEDs in from behind the shell for the walkway lights and applied the new step and truck lights. In the end 19 LEDs were used for the various walkway and step lights.

For painting I started by priming this unit with Model Master White primer and applied two coats of Model Master Guards red paint. I find by using white primer it helps to get a bright red colour similar to CP's new paint scheme (I have used grey primer in the past and find it provides a darker red similar to SOO Line's candy apple red paint scheme) The walkways, underframe, nose and railings are painted with Model Master semi-gloss black and white paint. The decals are from Microscale and the model is sealed with Model Master semi-gloss clear coat.

To complete the model I added clear window glazing from Evergreen styrene (but tinted the side windows with automotive tinting), and applied metal frames around the windows. I installed an ESU EMD 710 sound decoder with a sugar cube speaker. All head lights and ditch lights are warm white 0603 SMD LED's.

If interested in further details or a detailed parts list, please feel free to e-mail me at, [scottkuhn7@gmail.com](mailto:scottkuhn7@gmail.com).

*Scott Kuhn*



*(Editors note: Scott also has an article in the February 2018 Railroad Model Craftsman about his SD30c-ECO build)*

## **SUPERTRAIN 2018**

January 15th was the deadline for the exhibitors to submit their application for this year's show, and with the 117 that have applied, we can again say that the show is at full capacity. Something interesting is there are 21 exhibitors this year that did not participate in SUPERTRAIN last year. This is important, as we need variety for the visitors to come year over year.



**SUPERTRAIN NEEDS YOU!** Another important aspect of the show is volunteers. Without volunteers, the show can't happen. We need over 200 volunteers to make the show a success, and we count on you, CMRS members, to help. SUPERTRAIN is the main source of revenue for the Society, to finance its activities.

The first call for volunteers has been emailed to all CMRS members and past volunteers. If you haven't seen it, check in your spam folder, or under the Promotions tab if you use



G-Mail. The Committee would really appreciate it if you reply promptly to the invite. To apply visit our website, <http://supertrain.ca>, and click Volunteer from the main page. Remember, volunteering gives you free admission to the show, a food voucher, and a chance to win one of the gift certificates drawn after the show. If you have any questions, please contact Jim McArthur at [volunteer@supertrain.ca](mailto:volunteer@supertrain.ca).

The Volunteer Orientation meeting will be held on Sunday, April 8th, from 1pm to 3pm, at the Genesis Centre. Refreshments will be served.

The show advertising is all planned for this year. We will again have radio spots and TV advertising on the Global TV News. Rather than having posters at some of the C-Train stations, we will advertise on the new TV screens at many of the stations across the city. The show is also advertised in Family Fun Calgary, in Calgary Child Magazine, on relevant websites, and on Facebook. And of course, banners will be installed on eight overpasses two weeks prior to the show.

SUPERTRAIN Saturday Night Gala will be held at the Glenmore Inn and tickets are now available for \$35.00 each. Drinks are available from 5:00 pm, and dinner is served at 6:30 pm. If you have any dietary requirements (Celiac, Kosher, etc.), please advise when ordering your tickets. The Glenmore Inn can provide special meals if we provide them with sufficient advance notice. We can reserve tables for groups of six or more. Please let us know when you reserve your tickets if you wish to reserve a table as well. To reserve your Gala tickets, contact Jeffrey Burk at [gala@supertrain.ca](mailto:gala@supertrain.ca) (preferred method), or at 403-613-0603 and leave a message with name, return phone number and number of tickets and we will call you back for a confirmation. Tickets can be picked up at the Mini Meet on March 4th, or at the Volunteer Orientation meeting on April 8th.



The guest speaker at the Gala will be JASON SHRON, founder and president of Rapido Trains Inc., Canada's largest model train and bus manufacturer. He is also "The Guy With the Train in his Basement" on YouTube, as he built a full-size VIA coach in his house. He was instrumental in saving VIA Rail LRC locomotive #6917 for the Toronto Railway Historical Association, and through Rapido has preserved a VIA E Sleeper and an RDC. Rapido has expanded from a one-man-show to a core team of 10 people, all devoted to Canada's model train industry. Rapido has produced more accurate ready-to-run Canadian model trains than all other manufacturers combined. Jason

will discuss the challenges facing the model railroad hobby today and the pitfalls of railroad preservation, and then he will open the floor for a question and answer session.

SUPERTRAIN admissions can be pre-purchased online. There is currently an early bird special where general admission is \$12 for one day, and \$20 for the 2-day weekend. After February 28th, the general one-day pre-purchased admission will be \$14, and \$22 for the weekend (Ticket booth price is \$15 each day). Visitors who have pre-purchased their admission will have their on-line ticket scanned and will be given their wristband at a fast lane booth. To order, go to <http://supertrain.ca> and click on Online Advance Ticket, or visit the SUPERTRAIN Facebook page.

*Daniel Charest  
Chairman SUPERTRAIN 2018*

**British and Canadian railway books**

C&SW has inherited a large collection of books and magazines on these subjects. You are invited to browse through this collection and take home books and mag's of interest. C&SW meets monthly on the 3rd Tuesday. Other times are also available. Email for appointment: [bcersson@xplornet.com](mailto:bcersson@xplornet.com)



<p><b>FOR SALE</b>  Peco code 100 HO switches (turnouts)  Electrofrog: 1 small R/H \$10, 2 medium L/H \$15  Insulfrog: 1 small L/H \$10, 1 medium R/H \$15, 1 medium L/H\$15; Lot Price \$55  <b>Proto 1000 DC</b>  1 British Columbia Railway BC10 BUDD Car \$65  Contact Gordon at <a href="mailto:ringingrails@shaw.ca">ringingrails@shaw.ca</a> or 403 281 6048</p>	<p><b>WANTED</b>  Any of the H.O. mixers either from Atlas or Athearn. They are Mack's, K-worth and Ford 850's. Call Steve Klein 403 945-3009 with price.</p>
---	---

## “Bouma” Kit Challenge

We are again running a kit challenge as presented by Peter Bouma. This year the kit is Roxbury roofing by “Railroad Kits”. Build the kit, modify it, kitbash it, whatever suits your fancy, then bring it to the Spring Mini Meet and show it off. You will receive \$25 back to cover the cost of the kit. If you want to participate, there's still time! You can buy your Roxbury roofing kit off the website: [http://www.railroadkits.com/index.php?main\\_page=product\\_info&cPath=1\\_7&products\\_id=10](http://www.railroadkits.com/index.php?main_page=product_info&cPath=1_7&products_id=10) .

You are also invited to show your kit at the CMRS members Diorama exhibit at SUPERTRAIN. This year you will eligible for a door prize of \$50 plus we will buy you lunch at the food trucks. Contact BJ Ersson, [bcersson@xplornet.com](mailto:bcersson@xplornet.com) to participate in the Diorama display at SUPERTRAIN.

## Slide Night 2017

Our last Slide Night was held on November 24, 2017 and was a success judging by the comments from attendees. A total of seven presentations were shown with topics ranging from modern Canadian trains to Swedish Narrow Gauge and British miniature train operations. About 60 CMRS members attended.

Unfortunately, we ran out of time and members who brought pictures for the potpourri session will have to wait until the next Slide Night to show them. In the meantime, continue taking pictures and please consider making a presentation next time. I would like to thank Roger Walker, John Sutherland, Tom Newton, B.J. Ersson, John Wrinch, Jim Ironside, and The Brotherhood for their presentations and assistance.

*Rob Badmington*

## Potential Railfan Events

Board members Bain Spielman and Rob Badmington are developing plans for a couple of excursions to see both model railroading and prototype operations outside of Calgary. We are working with modelers in Lethbridge to arrange tours of some of the fine layouts in that city as well as prototype locations. This tour is being planned for June. We are also looking at a trip to Edmonton, likely to coincide with the Greater Edmonton Train Show in September. Details of both these trips will be provided in the upcoming months.

## Coming Events Schedule

<b>Feb 24, 25, 2018</b>	<b>CMRS Layout Tours</b>
<b>March 4, 2018</b>	<b>CMRS Spring Mini Meet – Glenmore Inn</b>
March 4, 2018	CMT Flea Market – Glenmore Inn
March 2-3, 2018	Railway Prototype Modellers meet, ST. ANDREWS PRESBYTERIAN CHURCH
March 24, 25, 2018	Moose Jaw Thunder Creek Model Train Show
<b>April 14, 15, 2018</b>	<b>SUPERTRAIN</b>
<b>May 4-6, 2018</b>	<b>Railway Modellers Meet of BC, <a href="http://railwaymodellersmeetofbc.ca/">http://railwaymodellersmeetofbc.ca/</a></b>
<b>October 14, 2018</b>	<b>CMRS Annual General Meeting</b>

*Send an email to [orderboard@calgarymodelrailway.ca](mailto:orderboard@calgarymodelrailway.ca) with submissions for coming events!  
Deadline for the next issue is Feb 25, 2018*