

## PRODUCT REVIEWS

with. Unlike aluminum, it can be easily soldered. It can also be drilled, so can be attached to a wooden frame with pins. The corrugations are evenly spaced and the panels interlock well.

The product is supplied in flat sheets but it can be easily bent, too, especially along the lines of corrugation. A shallow radius can be bent just with the fingers. For a tighter radius, a panel could be pressed around a round object. For grins, I wanted to see if it could be bent perpendicular to the corrugations, using a set of bending rolls. This could be useful in making structures like silos, culverts, and Quonset huts (also developed in Britain). I got out my set of miniature rolls and put a sheet through several times. I was able to get a surprisingly tight bend (and could easily have gotten an even tighter one) without squashing the corrugations.

Cutting these sheets (like any corrugated sheet) is a little problematic. They can be cut with scissors. This leaves a clean cut but it flattens the corrugations at the end, which might be okay for some applications. However, if the corrugations need to be left intact—so that one panel will mate with the next, for instance—a better alternative would be a jeweler's saw or a Dremel with a cut-off disc in it.

Most full-size corrugated metal today is galvanized, or zinc coated. These panels replicate that with their tin coating. Ancient corrugated metal is often found rusted, sometimes severely so. This product can be rusted but you'll have to remove the tin coating first. This could be done chemically with various acids, or mechanically with abrasives or wire brushes. Once the tin is gone, the metal can be rusted with various chemicals (look online for recipes).

This is a good product that should find a wide variety of uses on your railroad, regardless of the era you're modeling.

—M. Horowitz

## PROS and CONS

**PROS:** Good corrugated profile; prototypical material; easy to work; can be prototypically weathered.

**CONS:** Actual scale not quoted.

## Sound choice



their first sound systems five years ago and was, for the most part, pleased with what was provided.

MyLocoSound has completely re-engineered their sound boards. These new boards are a mixture of analog and digital sounds, and include some new features commonly found on today's high-end sound systems. There are many adjustments that can be made on these boards with respect to the sounds, giving the

Sound can make or break a model. You can put a good sound system inside a cardboard box, and the box takes on a new life. Conversely, you can put a poor sound system inside a museum-quality model, and any sense of realism quickly disappears. As digital technology continues to improve, our high-end sound systems are getting more realistic. Unfortunately, they're also getting more expensive.

That's where MyLocoSound comes in. Their products fill a void for folks who want good sound on a budget. I reviewed

user a lot of flexibility to customize the sounds for a given locomotive. Two boards are offered: one steam and one diesel. These are designed to be used in "traditional" track-powered environments or they can be controlled by a command-control system of your choice, though they are not DCC compatible.

The steam board offers a chuff, air pump, bell, a few different styles of whistles (programmable), safety valve pop off, and a conductor saying "all aboard." The sounds are a mixture of analog syntheses (chuff, air pump, safety, whistle) and digital recordings (bell and conductor). The digital bell is a definite improvement over the older board. It's an air-run bell, so it rings at a constant rate. The whistle is programmable to either a single- or double-chime whistle.

The diesel board offers four different motor sounds, a choice between a US

## VITAL STATISTICS

**Analog/digital sound system for steam and diesel locomotives**  
**MyLocoSound**

**Available in the US through**  
**G-Scale Graphics**  
**4118 Clayton Ct.**

**Fort Collins CO 80525**

**Price: \$79**

**Website: [www.mylocosound.com](http://www.mylocosound.com)**

Locomotive sound boards with analog and digital sounds; programmable—lots of user flexibility; steam or diesel available; a variety of sounds on either board

## PROS and CONS

**PROS:** Good overall sound quality; easy installation and adjustment; individual volume control for each specific sound

**CONS:** Bell and whistle sounds cannot play at the same time; "turbo" sound on diesel board is distracting (can be turned off); bell only works when chime whistle is turned on



chime horn and UK two-tone horn (where the tones are played in succession, not simultaneously), bell, conductor, air release, and turbocharger.

The biggest change over the old boards comes in how you program them. You use (of all things) a TV remote. If you have a universal remote already, you can use that. (MyLocoSound will tell you which code to use.) Otherwise, you can purchase one with your board. The buttons' functions are explained in the (online) instructions. While the remote you use may not match the remote shown in the photo, the buttons all work the same. The remote works via infrared (like most remotes), and the board is equipped with an IR sensor on the board itself as well as a remote IR sensor that plugs into the board. This can be placed inconspicuously inside a cab window, in a toolbox, or on the hood of a diesel—somewhere where it's easy to "see" the signal coming from the remote. The remote is used to program the board and can also be used to trigger the sounds in operation.

The online instructions show how to wire the board into your locomotive. If you're installing this system in a locomotive that's powered by traditional track power, you'll need to buy a rechargeable 9V battery to provide power to the sound board when the locomotive is stopped or moving slowly. I chose to install mine in one of my locomotives controlled by a Crest "Revolution" control system. Other control systems are similar, so the illustrations in the instructions will guide you, whether your system is specifically covered or not.

I hooked up the steam sound first, per the instructions. When I turned it on, I heard a loud hissing sound. Using the remote, I could raise and lower the volume of the hiss without issue. I then checked the whistle, bell, and other sounds. All seemed to work well and I was able to change the pitch of the whistle, and the volumes of all the sounds as per the instructions. This board can put out quite a bit of volume, though I prefer mine on the quieter side.

If you opt for the single-chime whistle, you lose the ability to ring the bell. The function button that would control the

## Online extras

### Product video



Subscribers can watch a video of Accu-craft's Shay. Click on "Product videos" under "Products & Hobby news."

### Online forum

Topics include all aspects of the hobby. Interact with fellow members of the garden-railway community.

### Find a club

Find a directory of garden-railway societies on our website under "For beginners." Those without Internet access may call our editorial office at 262-796-8776 for assistance.

### Related links

Everyone can access the links provided in David Bodnar's article, "Build an infrared train detector." Type "infrared train detector" in the search box.

bell allows instead a very short "toot" of the whistle. Note also that the whistle and bell sounds cannot play at the same time. If you've got the bell ringing and then blow the whistle, the bell will stop while the whistle is blowing, then resume once the whistle stops. Prototypically, the whistle would drown out the bell anyway. However, at the volume levels I had set, it was a bit more noticeable.

The steam board has three operating modes: manual (all sounds controlled from the remote), automatic (whistle blows once on startup and periodically while running), and American automatic (whistle sounds two toots when starting to move forward, three toots when starting backwards). You can control the sounds manually in the two "automatic" modes as well.

The whistle sounds pretty good. It's a synthesized sound and, as you adjust the tone of the whistle up and down, you'll hear some weird harmonics fade in and out as you go up the scale. Pick a tone that is pleasing to your ear.

The chuff can work either off of motor voltage or off of a chuff cam. The voltage-controlled chuff is there for those who want chuff sounds without a lot of fuss. It's not going to be properly quartered to

the drivers, though. You can adjust it, but it will not be in sync throughout the speed range. The chuff is a well-done analog synthesis of a chuff sound. I liked the chuff on the old board, and this one improves upon that.

MyLocoSound added another feature to the chuff, making it load sensitive. When you start accelerating, the chuff will play louder while you're accelerating or under a heavy load. Once at a "normal" load, the chuff volume backs off a bit. If you slow down or go downhill, the chuff quiets as if the throttle on the locomotive was closed. There's a sensitivity adjustment that allows you to tune that feature to the locomotive. My only gripe is that the volume sometimes changes mid chuff instead of waiting until the individual chuff sound is done. Because this works off of the motor's back EMF (BEMF), each locomotive will be different in how it responds to this feature.

The air-pump sound can be turned on and off. It has a completely different tone from the chuff, so you can differentiate it when the locomotive is running. Likewise, the safety valve popping off is a fun feature. Both sound quite good.

On the diesel board, there are four different diesel-motor sounds. These are



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analog synthesized sounds. Three of them sound somewhat similar to each other but there are subtle differences. None of them would fool your neighbor into thinking Amtrak is running through your backyard but the sounds are pleasingly reminiscent of an internal-combustion engine. The speed of the engine is controlled by the motor voltage, and you can adjust the rate of change via the remote.

Horns are also synthesized. You can adjust the tone of the horn via the remote. Like the steam whistle, there are some odd harmonics that come in and out. You notice them when adjusting the tone but, once it's set and you just blow the horn by itself, they're not nearly as noticeable.

The bell is the same digital bell recording that was used on the steam board. Like the steam board, it also cuts out

when the horn is blown, then picks up where it left off.

If there's a weak part of the diesel board, it's the "turbo" sound. I wasn't impressed with it. I tried adjusting the pitch up and down the scale, but no matter what I did, it didn't sound right, and distracted from the other sounds. It's easy enough to turn off, however (function 5).

Operationally, both the steam and diesel boards performed well. There were some differences when it came to triggering sounds from the Revolution vs. the TV remote. If you're using the TV remote, it sends out repetitive pulses, so quick key presses are the order of the day. If you want to blow a long whistle, you press the "1" button once to start the whistle, then press it again to stop it. On the Revolution remote, the whistle sounds for as long as you hold down the button. However, you've got to double-punch the "2" button to trigger the bell, then double-punch it to turn it off. Other controls may be the same or different—you'll have to experiment. I found the IR control from the remote to be reliable outdoors up to about eight feet (which is a lot farther than I expected, especially in our Colorado sun).

I did notice a bit of odd behavior when it came to triggering the bell and conductor sounds with the Revolution receiver, though it seems to be specific to certain versions of the receivers. When the motor is running, triggering the bell or conductor (F2, F3) via the Revolution remote causes it to stutter for a second before it plays normally. When the motor is stopped, it triggered fine. I asked MyLoSound about this and they ran some tests, finding the same things I noticed. A few days later, they e-mailed me saying they found the software bug that was causing this erratic behavior and have since fixed it.

Technical hiccups aside, I think MyLoSound's board is a great value. They did a good job putting features normally seen only in the high-end digital boards, into a budget-friendly board. The sound quality is good and I like the level of customization you can do. The company's website has videos where you can hear the sounds for yourself. These are representative of what you'd hear in person. —K. Strong

## COMING IN THE Next issue

In part two of our "Clubs" series Bill Derville discusses how the **Rose City GRS** promotes the hobby through hosting clinics and seminars that are open to the public.

Learn how to build a beautiful and complex **cantilever bridge** using standard aluminum shapes.

"Greening your railway" discusses how we can use **miniature fruit trees** to enhance our railways.

**ON SALE Sept. 8**

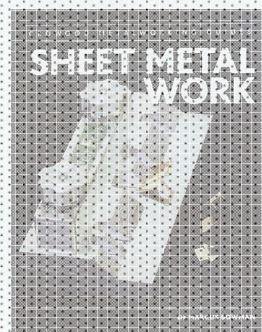
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## The art of metalwork

Modelers today often turn to plastics to represent sheet metal in their work, ignoring the real thing. It is commonly felt that working with metal requires a lot of specialized tooling. While it is certainly true that there is a vast number of tools available for doing various things to sheet metal, quite satisfactory results can be attained using simple hand tools.

*Sheet Metal Work*, while not aimed specifically at the railroad modeler, contains lots of useful information for those wishing to expand their skill sets. The book could be considered an introduction to sheet metal work as an industrial (as opposed to artistic) endeavor. It has a total of ten chapters, followed by seven step-by-step projects utilizing different types and weights of sheet metal.

Chapter topics include materials,



## BOOK REVIEW

*Sheet Metal Work*  
by Dr. Marcus Bowman  
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United Kingdom  
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