

Rochester Model Rails

Dedicated to Quality Model Railroading

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A Barnhart Loader loads logs on the HO scale model railroad of Dick Senges, Victor, NY. Note the grisly bear in front of the log car.

Night Scenes by *Leo Adamski*

Depth of Field by *Dave Thompson*

Scratch Built Lanterns by *Ray Howard*

Building a 1:87 Scale Sawmill - Part 19 – Trusses by *Richard Senges*

Leo Adamski's Night Scenes



Leo Adamski's Night Scenes



Depth of Field

by Dave Thompson

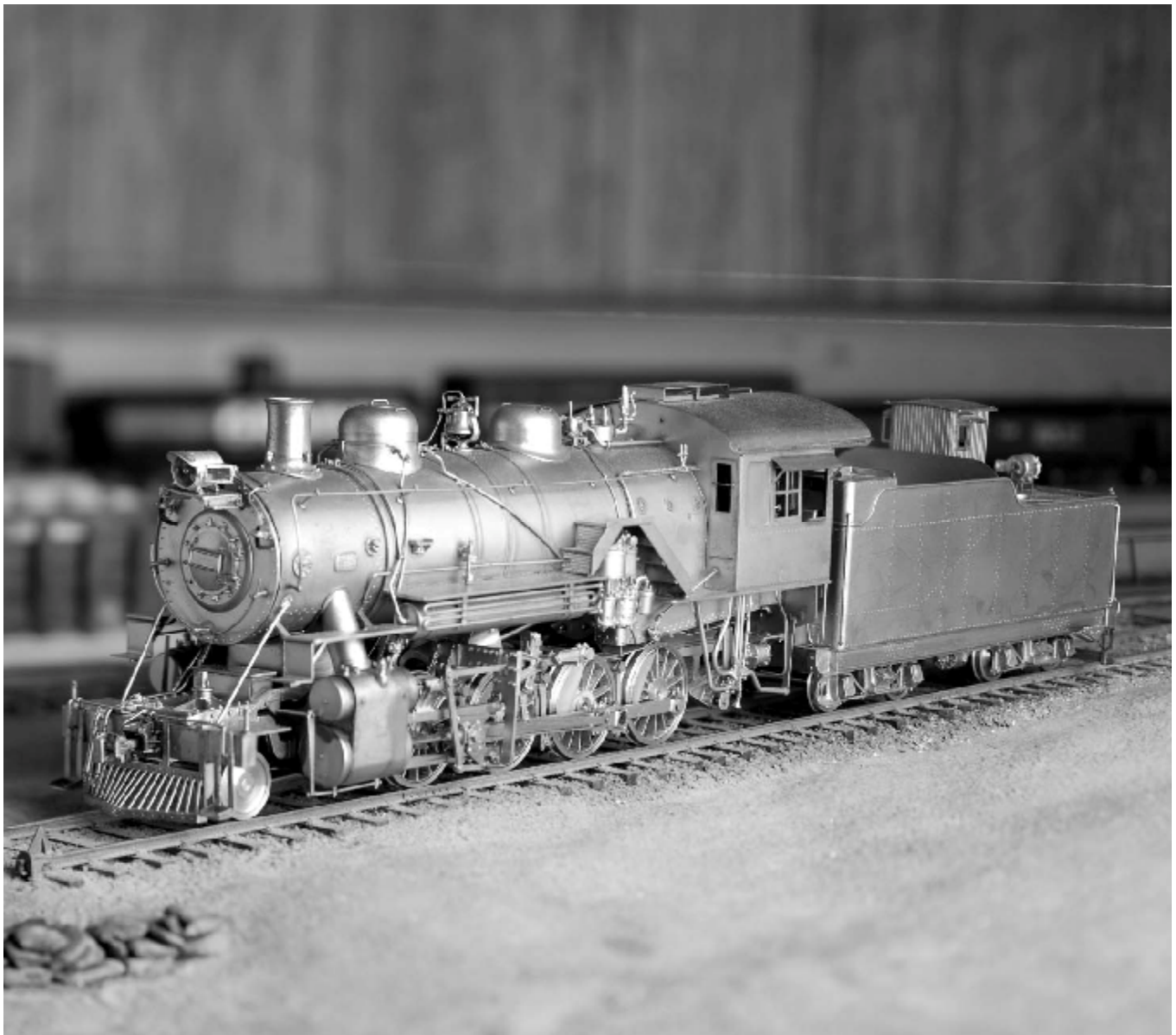
I thought you might be interested in a not so common or understood method of controlling depth of field to improve photos. The first photo is a shot with the lens wide open, f/2.8, about 30 inches from the subject and at an angle of about thirty degrees to the tracks. You can see the plane of sharp focus is close to the fourth set of drivers. As you view the front pilot and coupler or the rear most part of the tender the image goes out of focus. This is what all standard, digital or film, cameras and lenses will do with the lens set wide open. This is the depth of field problem that most of us complain about particularly if we want our work published in magazines or on a web site. Larger f/no's will reduce the effect, but, not always eliminate it. And as the lens opening gets smaller we can't get enough light for a correct exposure.



The second photo is a photo of the same engine, the same lens to subject distance, the same angle and, believe it or not, the same lens set to f/2.8!!!! You ask how this is possible. Read on.

The lens I used for this exercise is a PC-E Micro *Nikkor* 45mm F/2.8 ED mounted on a *Nikon* D-200 camera. The lens has two features that help correct perspective control and depth of focus. I used the latter feature for this example.

For the second photo the lens was tilted about three degrees from perpendicular to the image plane. This allowed depth of field to go beyond the engine and tender. The technique of moving lenses about an axis is not so common among point and shoot photographers. However, this is used with large format cameras like 4x5 format etc.



Ray Howard's HO Scale Scratch Built Lantern

The Day Scene



Ray used the *Rochester Model Rails* article (Sept./Oct.2009 Issue No. 63) on miniature lantern construction as a guide in building his 1:87 scale miniature lantern. To access the *RMR* issue # 63, go to the Home Page and click on Back Issues.

Ray Howard's HO Scale Scratch Built Lantern

The Night Scene



Building a Large 1:87 Scale Sawmill I

Part 19 – The Trusses

by *Richard Senges*

In Part 18 of the *Sawmill Series* we discussed the construction of the Dry Rollway. This issue we will review the Trusses - see the model photos below on page 9.

Fifteen trusses were made, 8 for the "New Mill", 5 for the "Old Mill" and 2 for the boiler house. Each New Mill truss has 3 vertical 0.020" rods (1 3/4" 1:87 scale). These were tricky to install as they had to be located exactly in the center of the 8" x 8" lumber and be perfectly vertical, perpendicular to the horizontal cross member.

This was accomplished by making a special tool using steel wire and a small piece of wood. The steel rod was inserted into the wood making a long drill per se. The end of the rod was sharpened to a chisel point. The rod was then inserted into a starter hole and punched through until locating exactly where the next hole was to be drilled. The wood was turned twisting the rod like a drill. This resulted in getting the hole exactly in the right place.

From the book *Lumber* [1922] by Ralph Clement Bryant –

The Building –

“Sawmill machinery is usually housed in wooden structures, although, some steel-and-concrete buildings have been erected, in recent years, at certain plants where the output is large.”

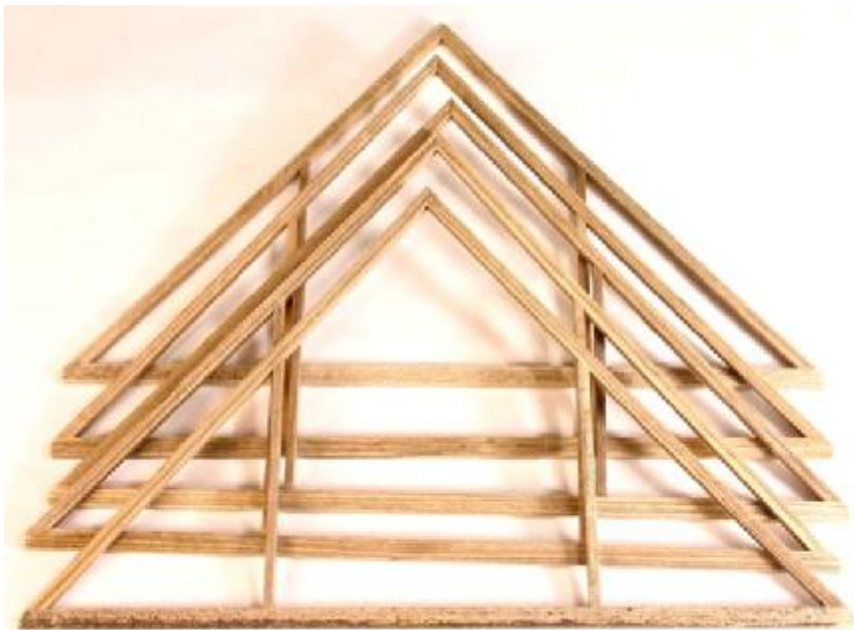
“Concrete, because of its permanent character, is now used for the foundations of all large wooden sawmill buildings, provided a solid bottom can be secured.”

“There is not much variation in the dimensions of buildings housing similar machines as the character of machines and the necessary space for their operation are fairly well standardized.”

“The wooden supporting post on the ground floor usually are 12 x 12 inches in cross-section; those on the second floor, 10 x 10 inches; and those supporting the roof of the third story, the filing room, 8 by 10 inches. The floor joists and braces vary in size in accordance with the weight supported.”



Trusses for the “New Mill”. More trusses were made than indicated in the *SierraWest Twin Mills at Deer Creek* to accommodate the custom larger mill. Note the vertical steel rods which were installed using the tool mentioned above.



Trusses for the “Old Mill”. These were designed and scratch built based on photographs of the Pino Grande Mill.

The Trusses

**Next Issue –
The Steam Engine**

A photograph of a detailed model of a steam engine. The engine is made of metal and is mounted on a wooden base. It features a large flywheel, a boiler, and various mechanical components. The background is a plain, light-colored surface.

Potential Future Articles

Resin Casting

The Santa Fe CF – 7

Hammondsport Band Shell

Hammondsport Power House

Hammondsport Engine House

Tortoise Installation Made Easy

NEXT ISSUE

**Covered Wharf Shed of the
B & H RR, Hammondsport, NY**

**Building a Large
Sawmill/Pond Complex
Part 20 – The Steam Engine**

The Portage Oneida Railroad

B & H RR Band Shell

Rochester Model Rails

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