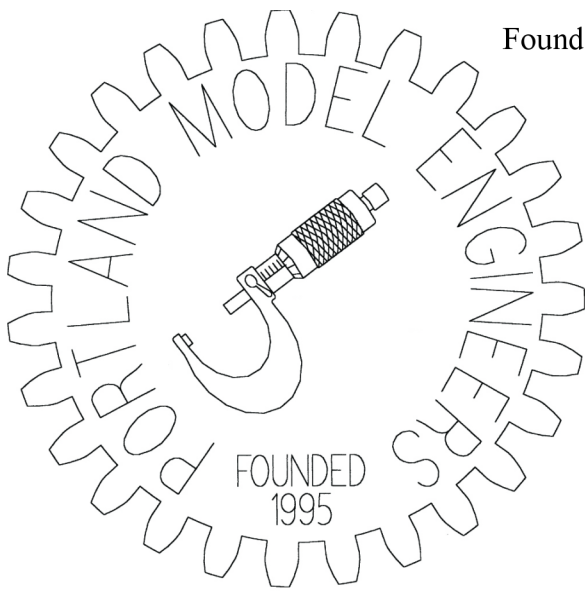


Founded by Dave and Beth Carr in 1995

**July 2007**



<http://www.portlandmodelengineers.org>

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### **For The Beginner #41 by Wes Ramsey**

The 3rd Annual Tri-Club Picnic was held last month at Antique Powerland in the Trolley Barn. Many thanks to all who put the extra effort into making the journey and especially those who helped behind the scenes to make it happen.

Greg Dermer had a few words as well:

Over 100 attendees made the Tri-Club Model Engineers Picnic a great success in spite of intermittent heavy rain. The Trolley Park volunteers made outstanding hosts, and gave frequent trolley runs around Antique Powerland. A last moment move into the trolley barn made for a comfortable lunch and plenty of space for project display and conversation. We sold nearly 130 tickets, and though I couldn't get a 100% accurate count of the milling crowd, I believe that at least 100 folks braved the weather. Thanks once again to the volunteers, both official and unofficial, who made the arrangements, helped with food, moved tables and all those other chores that made the picnic successful.

Next month we will meet back at Grant Carson's shop on Saturday, July 14th, 1:00pm at:

A & G Products  
7360 SW Bonita Road, Unit C  
Tigard, OR 97224

Remember to bring your metal-related projects -- complete or not. Refreshments are provided and you'll get to talk to some really interesting people.

### **The Follower Rest**

Long, slender shafts tend to spring away from the tool, vary in diameter, chatter, and often climb the tool. To avoid these problems when machining a slender shaft along its entire length, a follower rest is often used. Follower rests are bolted to the carriage and follow along with the tool. Most follower rests have two jaws placed to back up the work opposite to the tool thrust. Some types are made with different size bushings to fit the work.

### **Using the Follower Rest**

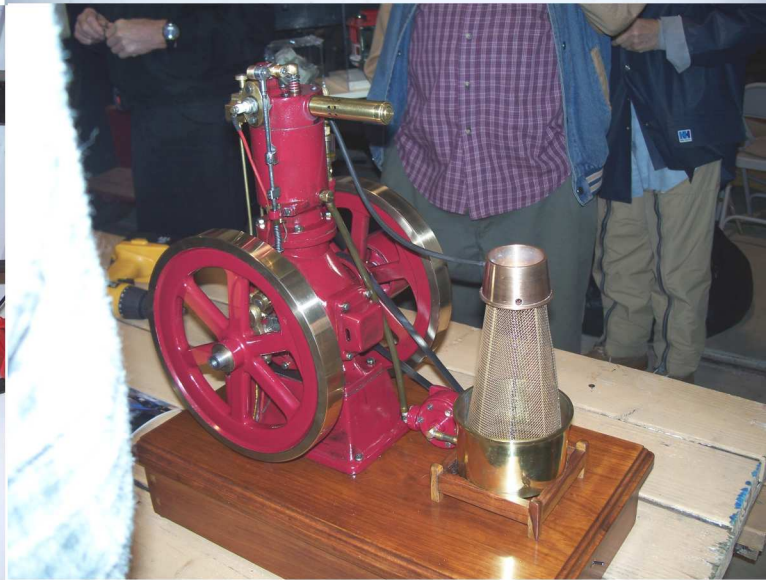
The work piece should be 1 to 2 inches longer than the job requires to allow room for the follower rest jaws. The tool is adjusted ahead of the jaws about 1-1/2" and a trail cut of 2 or 3 inches is made with the jaws backed off. Then the lower jaw is adjusted finger-tight followed by the upper jaw. Both locking screws are tightened. Oil should be used to lubricate the jaws.

The follower rest is often used when cutting threads on long, slender shafts, especially when cutting square or acme threads. Burrs should be removed between passes to prevent them from cutting into the jaws. Jaws with rolls are sometimes used for this purpose. On quite long shafts, sometimes both a steady rest and a follower rest are used.

If your membership expired (as shown by 2006 on your address label) renew by sending a check for \$12 to:  
PME Membership Renewal, c/o Carl Petterson, 1631 SW Pendleton St., Portland, OR 97239



This page shows a selection of the fine craftsmanship on display at the event. We had around 15 model engines.



On the following page are some images of the trolleys that live at Antique Powerland and are in various stages of being restored. Guests were able to roam about the Trolley Barn and climb in and out of the exhibits and imagine what it would be like to ride.









There was plenty to see and do at the picnic. Everything from looking at the models to swapping junk to eating good food and talking over the latest project ideas.

